Author index for Volume 82
(January through December 2004)

A

Álvarez, I., 2246
Aaron, D. K., 2780
Aaslyng, M. D., 3617
Abeni, F., 438
Abreu, A., 1392
Ackerman, C. J., 2175
Adams, J. R., 2153
Adeola, O., 715, 2657
Agnew, R. E., 1367, 1380
Aherne, F. X., 2013, 3058
Ahola, J. K., 2375
Ajisaka, N., 1839
Alali, W. Q., 2148
Albera, A., 3440
Albin, D. M., 2610
Alderton, A. L., 1475
Alexander, B. M., 2548
Aliaga, S., 3138
Allee, G. L., 1241
Allegrini, S., 438
Allen, D. M., 1190
Allen, V. G., 2742
Altmann, M., 816
Ames, N. K., 2953
Ammoura, A., 2451
Amstalden, M., 2930
Anderson, D. B., 3245
Anderson, D. E., 3394
Anderson, V. L., 2667, 3662
Andrew, S. L., 1602
Ansley, R. J., 2773
Apgar, G. A., 1693
Appeddu, L. A., 2780
Apple, J. K., 3267, 3277
Araiza, A. B., 1997
Arango, J. A., 54, 74
Araujo, J. A., 2200
Argenzio, R. A., 2757
Armstrong, T. A., 1234, 2140, 2474, 3245, 3277
Arnold, D. R., 3024
Arqué, M., 1919, 1925
Audet, I., 626
Augspurger, N. R., 1100, 1732
Avampato, J. M., 1219
Awawdeh, M. S., 759, 3537
Ayars, W. H., 867
Azain, M. J., 916, 3049

B

Baas, T. J., 41, 2264
Backman, T., 690
Bader, J. F., 1022
Baker, D. H., 1100, 1334, 1732, 1942
Baker, D. S., 2375
Bakken, M., 2528, 3458
Baldwin VI, R. L., 479, 3015
Barham, A. R., 2092
Barham, B. L., 2092
Barkema, H. W., 982
Barrera, M., 1997
Bartle, S. J., 1508, 1518, 1528
Basarab, J., 1, 967, 2451, 3405
Bastiaansen, J. W. M., 2829
Bateman, H. G., 508
Baucells, F., 3210
Bauer, M. L., 298, 1855, 2123, 2185, 3560, 3654
Baumann, T. A., 2667, 2667
Beauchemin, K. A., 3346, 3357
Beckers, Y., 1818
Bednar, G. W., 2995
Bee, G., 826, 1206
Beh, K. J., 1261
Behrends, J. M., 225
Beitz, D. C., 242, 1410
Belk, K. E., 2069
Bell, A. W., 422
Bell, G., 2169
Benkel, B., 1, 967, 2451, 3405
Bennett, G. L., 2913, 3474
Benson, J. A., 1781
Benzoni, G., 2568
Bequette, B. J., 479, 2953
Berg, E. P., 2428, 3034, 3245
Bergoglio, G., 438
Berk, A., 1976
Berry, B. A., 837, 845
Bertani, G. R., 17, 32
Bertol, T. M., 2405
Bertrand, J. K., 351, 357, 362, 987, 1564, 2277
Bevers, S. J., 2773
Beynen, A. C., 1756
Bibé, B., 3128
Bidner, T. D., 705, 1699, 2392, 2630
Bijma, P., 1572
Bindel, D. J., 487
Binnendijk, G. P., 2964
Birkett, S. H., 109
Bishop, S. C., 384, 1290, 2234
Bittante, G., 85
Blackburn, H. D., 2900
Blackmore, K., 93
Blanton, Jr., J. R., 209, 2043, 2050, 2050, 2092, 2534, 2534, 2742, 2742
Blasco, A., 68, 654, 1046, 3138
Blum, J. W., 3181
Boettcher, P., 1572
Boger, C. B., 3267
Boggs, D. L., 1315
Bohlke, R. A., 2568
Bohnert, D. W., 1508, 1518, 1528, 2175
Boles, J. A., 2087
Bollinger, D. W., 1062, 1359
Bondesan, V., 808
Boren, C. A., 1359
Bosi, P., 1764
Boss, D. L., 2087
Bouix, J., 3128
Boujard, T., 2865
Bouton, J. H., 3388
Bowman, J. G. P., 2087, 2724
Boyce, J. M., 93
Boyd, R. D., 2945
Bozzi, R., 1572
Braundmeier, A. G., 452
Breen, S. M., 3088
Brendemuhl, J. H., 1071
Bressner, G. E., 571
Brethour, J. R., 3366
Brink, Z., 1029
Brown, D. C., 581, 1882, 3277
Browning, Jr., R., 634
Bruckmaier, R. M., 563
Bruemmer, J. E., 690
Brumm, M. C., 2460, 2588, 3373
Bruns, K. W., 1315
Bryant, K. L., 2333, 2397
Bunting, L. D., 705
Burkey, T. E., 397
Burns, J. C., 170, 1536
Burns, P. D., 2375
Busboom, J. R., 770, 779, 3600, 3611
Busby, W. D., 1621
Buttery, P. J., 231, 747
Byrne, K. A., 3430
Byrum, J. R., 319

C

Calkins, C. R., 3288, 3294, 3302
Calsamiglia, S., 3230
Campbell, J. M., 1685, 2333
Campbell, R. G., 93
Cannas, A., 149
Cant, J. P., 1678
Cantley, T. C., 1967
Cao, H., 2937
Capdeville, J., 3321
Capucille, D. J., 3038
Carabaño, M. J., 3447
Cardoso, F. F., 1589
Cardozo, P. W., 3230
Carlson, M. S., 1062, 1359
Carnier, P., 85, 808, 3440
Carr, M. A., 1471
Carroll, J. A., 1241, 1957
Carstens, G. E., 942
Carter, S. D., 2972
Carulla, J. E., 1392
Casas, E., 1280, 2913, 3474
Casellas, J., 1919, 1925
Casini, L., 1764
Cassady, J. P., 2259, 3421, 3482
Caton, J. S., 1488, 1788, 1826, 1855, 2123, 2185, 2667, 3024, 3560, 3589, 3662
Cavaney, F. S., 2364
Cecava, M. J., 273
Cerri, R. L. A., 3508
Cervantes, M., 1997
Chase, Jr., C. C., 1581, 2764, 2764
Chen, N. Q., 3175
Cheng, Z. J., 1136
Chevassus, B., 2865
Chiba, L. I., 2579, 2972
Chirase, N. K., 1219
Chiy, P. C., 2489
Choe, H. S., 619
Christenson, R. K., 472
Christian, L. L., 3482
Christiansen, D. L., 2919
Ciobanu, D. C., 2829
Climent, A., 68, 1046
Coalson, J. A., 2601
Coates, T., 3346
Cochran, R. C., 884, 895
Coetzer, C. M., 1170, 3526
Colahan, P. T., 619
Cole, J. B., 2906
Cole, J. T., 2757
Cole, N. A., 2705
Coleman, C. J., 1037
Coleman, S. W., 1581, 2764
Colombatto, D., 3346
Confer, A. W., 837, 845
Conington, J., 1290
Cook, D. R., 1234
Cooper, S. L., 1461
Coscioni, A. C., 3508
Cottrell, J. J., 2558
Coverdale, J. A., 1663
Craig, A. M., 2175
Crandell, K. M., 588
Crawford, Jr., R. J., 878
Creamer, R., 2169
Creech, B. L., 2140
Cremokolini, C., 1764
Crenshaw, T. D., 2352
Crews, Jr., D. H., 661
Crockett, K. L., 1471
Crompton, L. A., 733
Cronrath, J. D., 770, 779, 3600, 3611
Crouse, J. D., 647
Crowe, M. A., 1952
Cuaron, J. A., 2333, 2397
Cundiff, L. V., 54, 74, 647, 668, 1177, 1903, 1912, 2913
Cunha, B. C. N., 2069
Currier, T. A., 1508, 1518, 1528
Czarnecki-Maulden, G. L., 1707

D

Díaz, C., 3447
Díaz, T. E., 1392
Dabiri, N., 3237
Daniel, T. C., 605
Daniel, Z. C. T. R., 231, 747
Daniels, T. K., 2724
Das, P. K., 319

Davis, B., 3646
Davis, D. L., 102, 3154
Davis, M. E., 581, 605, 1882, 2229, 2285
Davis, M. L., 3314
Davis, M. S., 3077
Day, B. N., 1967
Day, M. L., 3071
de Fombelle, A., 3625
de Klein, W. J. H., 551
de Lange, C. F. M., 109
Dean, D. W., 2937
DeBey, B. M., 2148
Defoor, P. J., 2467
DeJarnette, J. M., 867
Dekkers, J. C. M., 1305, 2213, 2829
DelCurto, T., 2175
Delval, E., 3321
Demers, J. M., 452
den Hartog, L. A., 551, 1246, 1401, 2964
Denard, T. M., 878
Denniston, D. J., 283
DeRoin, J. L., 2876
DeRouchey, J. M., 250, 2750, 2937, 2945, 3635
Deweese, W. P., 2780
Dhanoa, M. S., 733
Dias, F., 2519
Dickel, T., 129
Didion, B. A., 1967
Diebold, G., 2647
Dijkstra, J., 733
Dikeman, M. E., 647, 2077, 3474
Dilger, R. N., 715
Ding, S. T., 683, 3162
Dodson, M. V., 770
Dolezal, H. G., 1437
Donoghue, K. A., 351, 357, 362, 987
Douglas, M. W., 1108
Dourmad, J. Y., 2343
Dove, C. R., 2972
Driessen, B., 2410
Dritz, S. S., 250, 397, 1499, 2013, 2750, 2945, 3058, 3154, 3635
Drochner, W., 129
Drogoul, C., 3625
Drouillard, J. S., 487, 1170, 3526
Du, M., 2541
DuBois, P., 2421
Duckett, S. K., 770, 779., 851, 1419
Ducro, B. J., 551, 1401
Duff, G. C., 2705, 2705
Dunn, J. D., 1868
Dunshea, F. R., 2558
Dvorak, R. A., 581
Dzidic, A., 563

E

Eady, S., 2852
Earley, B., 1952
Easter, R. A., 1079, 1108
Echternkamp, S. E., 459
Ecolan, P., 1931
Eisemann, J. H., 1536, 2757
Eissen, J. J., 551, 1401
Elam, N. A., 2705
Eler, J. P., 2519
Ellersieck, M. R., 1016, 1022, 1062
Ellis, M., 571, 2405
Ellis, W. C., 508
Elsen, J. M., 3128
Ely, D. G., 2780
Emmans, G. C., 2442
Encinias, A. M., 3654
Encinias, H. B., 3654
Engle, T. E., 2140, 2375
Enns, R. M., 2375
Enser, M., 1461
Erf, G. F., 1882
Erickson, G. E., 2153, 2718, 3543
Erickson, P. S., 3314
Eriksson, S., 375, 2269
Ertbjerg, P., 3617
Escobar, J., 1942
Eskridge, K. M., 3288, 3294, 3302
Estienne, M. J., 1494
Etter, R. P., 3219
Ettle, T., 1115
Eun, J.-S., 170
Evans, J. L., 2519
Everts, H., 1756
Eychenne, F., 3128

F

Fabian, J., 2579
Fahey, Jr., G. C., 1122, 1707, 1713, 3198
Fakler, T. M., 3267
Falck, S. J., 1508, 1518, 1528
Falen, L., 3600, 3611
Fan, B., 368
Fan, M. Z., 1678
Fang, Q., 1553
Farmer, C., 2343
Farmer, C. G., 884, 895
Farran, T. B., 1170, 2153, 3526
Fastinger, N. D., 2790, 3198
Fellner, V., 170
Felton, E. E. D., 725, 1794
Fernandez, G. C. J., 1986
Fernández, I., 2246
Fernandez, J. M., 508, 1699
Ferraz, J. B. S., 2519
Ferrell, C. L., 495, 502, 1876
Ferret, A., 3230
Feuz, D. M., 3288, 3294, 3302
Fieser, B. G., 307
Filipov, N. M., 2919
Filippini, F., 1572
Finamore, A., 1764
Fink, E., 2780
Finley, J. W., 1488, 1788
Fischer, R., 571
Fisher, D. S., 1536
Fisher, M. J., 2175
Fitzgerald, B. P., 2321, 2919
Fitzpatrick, L. A., 1037
Flahaven, M. A., 3198
Flowers, W. L., 2140
Fluharty, F. L., 137, 273
Fontenot, J. P., 1773
Foote, M. R., 242
Forabosco, F., 1572
Ford, J. J., 472
Ford, S. P., 2541
Fox, D. G., 149
France, J., 733
Frank, N., 2640
Franke, D. E., 2906
Frankeny, R. L., 1986
Frederick, B. R., 1454
Freetly, H. C., 495, 502, 612
Freking, B. A., 1280, 2293, 3144
Friesen, K. G., 3267, 3277
Frobish, L. T., 218, 2579

G

Gabert, V. M., 2610
Gaines, A. M., 1241
Gallo, L., 85, 808
Galvão, K. N., 3508
Galvin, K., 2384
Galyean, M. L., 2043, 2050, 2092, 2467, 2705, 2742
Gasa, J., 3210
Gaskins, C. T., 770, 779, 860
Gatford, K. L., 93
Geary, T. W., 695, 2375
Geers, R., 2410
Gelvin, A. A., 3589
Gentry, J. G., 209, 1190, 2092
Gentry, L. R., 508
George-Evins, C. D., 1863
Georges, M., 3128
Gerard, P. D., 2919
Geverink, N. A., 1227
Gibb, D. J., 2679, 3357
Gilbery, T. C., 2123, 2185
Gill, D. R., 837, 845
Gill, R. J., 2773, 2773
Gillis, M. H., 851, 1419
Gladney, C. D., 17, 32
Gleghorn, J. F., 2705
Gnad, D. P., 759, 3537
Golden, B. L., 2519
Gómez, E., 2246
Gomez, E. A., 654
Gómez, E. A., 1641
Goodband, R. D., 250, 1499, 2013, 2750, 2945, 3058, 3154, 3635
Goodwin, R. N., 41, 2264, 3482
Govoni, K. E., 1646
Goyache, F., 2246
Graham, J. K., 690
Grandeen, K. L., 3219
Greaser, M. L., 1445
Greeff, J. C., 2840, 2852
Greenwood, P. L., 422
Greenwood, R. H., 487
Gregory, K. E., 668, 1912
Greiner, S. P., 595, 1323
Grieshop, C. M., 1122, 1707, 3198
Griswold, K. E., 1693
Groen, A. F., 982, 1572, 3440
Guan, X., 2953
Guercio, S., 2451
Guex, G., 1206
Guimaraes, K. C., 3015
Guirnalda, P. D., 3500
Gumpertz, M. L., 170
Gupta, S., 1952
Guthrie, T. A., 1693
Gutierrez, C. G., 445
Gutiérrez, J. P., 2246

H

Haggard, B. E., 605
Hallett, K. G., 1461
Hallford, D. M., 283, 2548
Hambrecht, E., 551, 1401
Hamilton, D. N., 2405
Hamlin, G. P., 1037
Hammon, H. M., 3181
Hammond, A. C., 1581, 2764
Hampson, D. J., 2364
Hancock, J. D., 2937
Hansen, C., 1, 967, 2451, 3405
Hara, K., 1839, 1839
Hardy, R. W., 1136
Harmon, D. L., 1781, 2033, 2175, 3015, 3549
Harper, A. F., 1494
Harper, G. S., 3430
Harris, P. A., 588, 1007, 1773
Hartnell, G. F., 571
Hasegawa, Y., 1329
Hassen, A., 1272
Hastad, C. W., 250, 2945
Hausman, G. J., 429, 925
Hawkins, D. E., 283
Hawkins, D. R., 2995
Hayashi, H., 3415
Hayes, S., 2978
Hayes, T., 319
Heetkamp, M. J. W., 1227
Heldt, J. S., 884
Heleski, C. R., 2806
Helmreich, S., 563
Heng, B. C., 3175
Hennig, U., 1976
Henot, D., 2410
Henry, P. R., 1165
Hernández, P., 3138
Hernández-Cerón, J., 445
Hersom, M. J., 184, 262, 2059
Herzog, W., 1206
Hess, B. W., 179, 1146, 2541, 2985, 3577
Hess, H. D., 1392
Hess, J. B., 1071
Hess, T. M., 588
Hesselink, J. W., 982
Hickford, J. G. H., 8, 1553
Higbie, A. D., 1699
Higgins, J. J., 3526
Hill, G. M., 2140, 2995
Hill, N. S., 2919
Hilton, G. G., 1190, 2092
Hinchcliff, K. W., 2623, 2623
Hines, H. C., 2229
Hines, R. H., 2937
Hiney, K. M., 1612, 2313
Hixon, D. L., 3577
Hoagland, T. A., 1646
Hofer, A., 3118
Hoffman, R. M., 588
Holl, J. W., 1895, 3421
Holland, J. L., 1773
Holm, B., 2528, 3458
Hopper, R. M., 2919
Horn, G. W., 184, 262, 2059
Horst, R. L., 242, 1410, 2043, 2050, 2092, 2742
House, R. B., 867
Hoveland, C. S., 3388
Hristov, A. N., 2693, 3219
Hsu, J. M., 683
Huff-Lonergan, E., 770, 785, 1195, 3254
Huff-Lonergan, E. J., 242, 1410
Huiatt, T. W., 1195
Hunt, A. S., 422

Hunt, L. J., 2773
Hunt, M. C., 2077
Hunter, R. D., 487
Huntington, C. E., 1359
Hussein, H. S., 1986
Hymowitz, T., 1108
Hyun, Y., 571

I

Ilahi, H., 3118
Itabashi, H., 1839, 1847
Ivan, M., 2679, 2693
Ivers, D. J., 3245

J

Jacobson, B. N., 1693
Jaffrézic, F., 3465
James, B. W., 250
Janicki, K. M., 2978
Janovick, N. A., 2503
Jenkins, T. G., 1876
Jensen, B. B., 2615
Ji, F., 2534
Johansson, K., 375, 2269
Johnson, B. J., 397, 1868
Johnson, D. E., 895
Johnson, K. A., 860
Johnson, R. K., 17, 32, 41, 1000, 1895, 2428, 3421, 3482
Johnson, R. W., 1942
Johnson, S. K., 3071
Johnson, Z. B., 581, 878, 3267, 3277
Johnston, M. E., 2945
Johnston, S. L., 705
Jones, R. D., 3049
Jones, W. R., 218
Jorgensen, P. F., 414
Jose-Cunilleras, E., 2623
Juchem, S. O., 3508
Julliand, V., 3625

K

Kadarmideen, H. N., 3118
Kadowaki, H., 994
Kaji, Y., 3493
Kaku, K., 2115
Kalchayanand, N., 1475
Kamel, C., 3210, 3230
Kanda, S., 1839, 1847
Kane, K. K., 283
Kangawa, K., 1329
Karlsson, L. J. E., 2852
Karr-Lilienthal, L. K., 1707, 3198
Katoh, K., 994
Katsumata, M., 3493
Kause, A., 2301
Kavazis, A. N., 619
Kawakami, S., 3493
Kayser, J. P., 1868
Kearns, C. F., 3500
Kebreab, E., 733
Keegan, T. P., 2750
Keele, J. W., 3474
Kegley, E. B., 581
Keisler, D. H., 283, 445, 851, 1957., 2059, 2930
Kemp, B., 405, 1246, 2964
Kennedy, A. D., 3357
Kent, M. P., 794
Kerley, M. S., 725, 1794
Kerr, B. J., 1079, 1334, 2333, 2397
Kerr, C. A., 1261
Kerr, K. D., 1170
Kerry, J. P., 2384
Kerth, C. R., 218
Kgwatalala, P. M., 2876, 2884
Kidd, M. T., 2333, 2397
Kikuchi, M., 1329
Killinger, K. M., 3288., 3294, 3302
Kim, S. W., 2534
King, M. B., 2092
Kivipelto, J., 619
Kiyma, Z., 2548
Klein, J. D., 1157
Klemetsdal, G., 3458
Klopfenstein, T. J., 2153, 2718, 3543
Kneeland, J., 967, 3405
Knight, M. H., 3560
Knight, T. J., 1410
Knox, R. V., 3088
Ko, Y. H., 3162
Koch, R. M., 668, 1903, 1912
Kojima, F. N., 1016, 1022
Kojima, M., 1329
Koketsu, Y., 1482
Koohmaraie, M., 238, 534, 557, 794, 802, 1177, 1428, 3474
Kosal, M. E., 3394
Kreft, Jr., R. A., 2995
Krehbiel, C. R., 184, 262, 283, 837, 845, 2059, 3567
Kreikemeier, W. M., 2481
Kreuzer, M., 1392
Kristensen, L., 3617
Kristensen, N. B., 2033, 3549
Kronfeld, D. S., 588, 1007, 1773
Ku, P. K., 2953
Kuang, X., 2352
Kuber, P. S., 770, 779
Kubota, C., 3415
Kucuk, O., 2985
Kuhlers, D. L., 2579
Kukowski, A. C., 521
Kuller, W. I., 405
Kurokawa, Y., 1847
Kuzmuk, K. N., 1713
Kwella, M., 1976
Kyriazakis, I., 2442

L

Lázaro, R., 526
Labbé, L., 2865
LaBrune, H. J., 1170
Laforest, J.-P., 626
Lallès, J. P., 2364
Laloë, D., 3465
Lambert, D. L., 1170
Landblom, D. G., 1855, 3589
Langendijk, P., 405
Lardy, G. P., 298, 1855, 2123, 2185, 2667, 3560, 3589, 3654, 3662
Larick, D. K., 2004
Larzul, C., 3128
Lascano, C. E., 1392
Latorre, M. A., 526
Latour, M. A., 2640
Launchbaugh, K. L., 2798
Laville, E., 3128
LaVoie, V. A., 3380
Lawler, T. L., 1488, 1788
Lawrence, K. R., 3635
Lawrence, L. M., 2978
Lawrence, T. E., 2077
Le Callennec, C., 1931
Le Floc'h, N., 1091
Leak, F. W., 1071
Lee, D. J., 2937
Lee, H. K., 2213
Lee, J. H., 2734
Lefaucheur, L., 1931
Legarra, A., 1564
Lehnert, S. A., 1261, 3430
Lei, X. G., 1725
Leighton, E. A., 2906
LeMieux, F. M., 2630, 2972
León, H. V., 445
Leonard, N., 1952
LeValley, S. B., 2069
Lewis, A. J., 571
Leymaster, K. A., 612, 1280, 2293, 2892, 3144
Li, C., 1, 967, 2451, 3405
Li, D. F., 2601, 2615
Li, K., 368
Li, M.-H., 368
Li, S., 2352
Li, S.-J., 368
Lila, Z. A., 1839, 1847
Lin, X., 1669
Lindemann, M. D., 1693, 2972
Link, J. E., 2995
Linville, M. L., 3034
Lirette, R. D., 2392
Liu, B., 368, 2352
Liu, B. H., 683, 3162
Lloyd, K. E., 2140
Lloyd, W. R., 3308
López, S., 733
López-Romero, P., 3447
Loerch, S. C., 137, 273
Lonergan, S. M., 785, 1195, 2829, 3254
Lopez-Ortiz, S., 2798
Loughin, T. M., 2077
Lucy, M. C., 1016, 1022
Ludden, P. A., 179, 1146
Lunstra, D. D., 459
Lunt, D. K., 942
Luo, X., 2352
Lupton, C. J., 2293

M

Mäki-Tanila, A., 2301
Mäntysaari, E. A., 2301
Mabry, J. W., 41, 2428, 3482
MacDonald, E. J., 2131
Maciel, M. N., 2930
Macken, C. N., 2153, 2718, 3543
MacNeil, M. D., 860, 2307
Maddock, K. R., 785, 3254
Maddock, R. J., 521
Mader, T. L., 2481, 3077
Mahan, D. C., 1343, 2790, 3198
Main, R. G., 1499, 3058
Maiwashe, A. N., 2900
Malek, M., 2213, 3118
Malinowski, K., 3500
Maloney, C. A., 2937
Mambrini, M., 2865
Manzanilla, E. G., 3210
Mao, J., 1967
Marcq, F., 3128
Marden, J. I., 3314
Marini, J. C., 1157
Marks, B. P., 1612
Marks, D. J., 770, 779, 3600, 3611
Marsden, J. L., 1863
Marshall, C. E., 867
Martín García, A. I., 2023, 3006
Martin, F. G., 1165
Martin, M., 3210
Martineau, G. P., 626
Martinez, G. E., 1903, 1912
Masoero, G., 438
Mateo, C. D., 1339
Mateos, G. G., 526
Mathis, C. P., 884, 3646
Matis, J. H., 508
Matsumoto, M., 3493
Matte, J. J., 626
Matthews, J. C., 1781, 3015
Matthews, J. O., 705, 1699
Mauricio, R. M., 733
Mavromichalis, I., 2610, 2610
Maxwell, C. V., 581, 605, 1882, 2333, 2397, 3267, 3277
Mayes, M. S., 1195
McAllister, T. A., 198, 2679, 2693, 3357
McCann, M. A., 3388
McCauley, T. C., 1967
McCloy, M., 2773
McCormick, R. J., 770, 779, 1475
McCuistion, K. C., 759, 3537
McDonagh, M. B., 2558
McDowell, L. R., 1165
McElhenney, W. H., 2579
McGinn, S. M., 3346
McGlone, J. J., 209, 2421
McKeever, K. H., 3500
McLain-Romero, J., 2169
McLeod, K. R., 3015
McMahon, R. J., 1165
McPherson, R. L., 2534
McTeir, B. L., 2234
Médale, F., 2865
Meacham, T. N., 1773
Means, W. J., 1475, 2541
Medel, P., 526
Melchior, D., 1091
Melody, J. L., 1195
Melton, L. L., 3567
Melton, S. L., 2734
Mengheri, E., 1764
Merchen, N. R., 1707, 3198
Meriald:, G., 1764
Mersmann, H. J., 904, 942
Mertig, A. G., 2806
Metges, C. C., 1976
Mikel, W. B., 225
Mikuni, K., 1839
Milan, D., 1931
Milgram, N. W., 2200
Miller, D. J., 452
Miller, D. N., 3338
Miller, G. M., 3088
Miller, K. D., 2405
Miller, K. W., 1475
Miller, M. F., 209, 1190, 1471, 2043, 2050, 2092, 2742
Miller, P. S., 2588, 2588, 3373

Miller, R. K., 2428, 3482
Miller-Auwerda, P. A., 1663
Mills, J. A. N., 733
Milton, C. T., 3543
Miner, J. L., 935
Minton, J. E., 397, 3154
Mir, P. S., 770, 779, 2679
Mir, Z., 770, 779, 2679
Misztal, I., 362, 987, 1564
Miura, H., 1329
Mizoshita, K., 3415
Mostl, E., 563
Mocé, M. L., 68, 1046
Moeller, S. J., 41
Mohammed, N., 1839, 1847
Molina Alcaide, E., 2023, 3006
Moloney, A. P., 2384
Montagne, L., 2364
Montelongo, M., 837, 845
Montgomery, J. L., 2043, 2050, 2092, 2742
Montgomery, S. P., 1170, 3526
Moore, J. A., 1663
Moore, S. S., 1, 967, 2451, 3405
Moore, Jr., P. A., 605
Morel, P. C. H., 109
Moreno, A., 3447
Morgan, J. B., 1437, 3308
Morrical, D. G., 2503
Morrow, Jr., K. J., 2043, 2050, 2092, 2742
Mortimer, R. G., 2375
Mosenthin, R., 2647
Moser, R. J., 1261
Moss, G. E., 2548, 3577
Moter, V., 3518
Moumen, A., 2023, 3006
Murdoch, B., 1, 967, 2451, 3405
Murdoch, W. J., 2548
Murdock, C. S., 3314
Murphy, B. A., 2321
Murphy, M. R., 3314
Musser, R. E., 3154, 3277
Myer, R. O., 1071
Myers, W. D., 179

N

Näsholm, A., 375, 2269
Nadarajah, K., 2579
Nagaraja, T. G., 895, 2148
Nakagawa, M., 994
Nath, M., 384
Nayigihugu, V., 179
Nelson, J. L., 1437
Nelson, M. L., 3600, 3611
Nelssen, J. L., 250, 1499, 2013, 2750, 2945, 3058, 3154, 3635
Nephawe, K. A., 647
Nestor, E. L., 1806
Neves, J. P., 2930
Newcom, D. W., 2264
Ng, S. C., 3175
Nielsen, B. D., 1612, 2313
Nielsen, M. K., 2876, 2884
Nienaber, J. A., 1740
Nietfeld, J. C., 397
Nihsen, M. E., 878
Nishida, A., 994
Nissen, P. M., 414
Nkrumah, J. D., 2451
Nobili, F., 1764
Noblet, J., 2013
Noguera, J. L., 1919, 1925
Nooijen, R. I. J., 1401
Notter, D. R., 595, 1323, 1602
Novakofski, J., 905
Nunnery, G. A., 2467
Nutsch, T., 487
Nyachoti, C. M., 1053

O

O'Connor, C. I., 2978
O'Sullivan, A., 2384
O'Sullivan, K., 2384
Oba, M., 479
Obara, Y., 994
Odgaard, R. L., 2601
Odle, J., 1669, 2601
Ogino, A., 2115
Ohnami, Y., 1329
Okine, E. K., 2451
Oksbjerg, N., 414, 3617
Olcott, B. M., 705
Olson, K. C., 884, 3034
Olson, T. A., 2764, 1581
Omed, H. M., 2489
Omogbenigun, F. O., 1053
Ontsouka, E. C., 3181
Orth, M. W., 1612
Osada, T., 2115
Ott, E. A., 619
Owens, F. N., 2679
Owens, P. C., 93
Owsley, W. F., 218

P

Page, B. T., 3474
Page, T. G., 2630
Palacios, M. F., 1108
Panter, K. E., 2798
Pardue, S., 2004
Parish, J. A., 3388
Park, J. S., 2937
Parker, A. J., 1037
Parkhurst, A. M., 1079
Parr, T. M., 1334, 2333, 2397
Parrish, F. C., 2264
Parrish, Jr., F. C., 242
Parsons, C. H., 2467
Parsons, C. M., 1108
Pastir, K. E., 3314
Patil, A. R., 1707
Patterson, D. J., 1016, 1022
Payne, R. L., 2392
Peeters, E., 2410
Pell, A. N., 149
Perez, J. F., 3210
Perkins, A., 3380
Perry, G. A., 695, 1543
Peters, D. N., 1339, 2568
Peters, J. C., 1343, 2790
Peters, M. W., 1656
Petersen, M. K., 283
Peterson, A. J., 2329
Peterson, T. E., 1165
Petitclerc, D., 2343
Petry, D. B., 1000, 1895
Pettigrew, J. E., 1108, 2953
Pfister, J. A., 2798
Phebus, R. K., 1170
Philipona, C., 3181
Philipsson, J., 375, 2269
Phillips, C. J. C., 2489
Phillips, W. A., 262
Piccinini, P., 85
Piedrafita, J., 1919, 1925
Piepho, H.-P., 2647
Pike, J. N., 3526
Piles, M., 654
Pinchak, W. E., 2773
Pion, S. J., 2004
Piper, E. L., 878
Piron, F., 1818
Pla, M., 3138
Plagge, J. G., 1246
Plastow, G. S., 2829
Pleasants, A. B., 2329
Pliquett, U., 816
Pluske, J. R., 2364
Pollak, E. J., 661
Pollott, G. E., 2840, 2852
Polo, J., 1685
Pomp, D., 17, 32, 3421, 1725
Pontif, J. E., 1699
Poore, M. H., 3038
Pordesimo, L. O., 2734
Poulos, S., 429
Prather, R. S., 1967
Price, M. A., 2451
Prigge, E. C., 1806
Pringle, T. D., 851
Pritchard, R. H., 1315
Pulsipher, G. D., 283
Purdy, C. W., 1219
Pursley, J. R., 1656

Q

Qiao, Y., 1669, 2596
Quaas, R. L., 661, 3474
Quigley, III, J. D., 1685
Quillet, E., 2865

R

Radcliffe, J. S., 1693
Rademacher, M., 2610
Rafel, O., 654
Ragland, D., 715
Ralphs, M. H., 3100
Ramon, J., 654
Ramsay, T. G., 3486
Ramsey, C. B., 1471
Randel, R. D., 942
Rankins Jr., D. L., 2193
Rathbun, T. J., 102
Rauw, W. M., 1919
Ray, F. K., 1437
Realini, C. E., 851
Recalde, B., 2865
Redmer, D. A., 1826, 3024
Reed, J. J., 1788, 2123, 2185
Reedy, S. E., 2321
Reeves, J. J., 770, 779
Reicks, D. L., 2164
Rekaya, R., 351, 357, 362, 987, 2277, 2528
Remmenga, M. D., 283
Renand, G., 3465
Rentfrow, G., 3034
Reverter, A., 1261, 3430
Reynolds, L. P., 1788, 1826, 3024
Rhee, M. S., 534
Rich, G. A., 1773
Richards, M. P., 3486
Richards, S. E., 231
Richardson, R. L., 925
Rideout, T. C., 1678
Rider Sell, N., 225
Riley, D. G., 1581, 2764
Rincker, M. J., 2995
Ringkob, T. P., 1445
Ringler, J. W., 487
Rivera, J. D., 2467, 2705
Roberts, A. J., 283, 459
Roberts, C. A., 878
Roberts, W. J., 3267
Robison, O. W., 41, 2259, 2428, 3482
Rodriguez, S. M., 3015
Rodriguez-Zas, S. L., 2892, 3088
Roegner, V., 3500
Rogers, G. M., 3038
Rogers, P. L., 860
Rollin, B. E., 955
Romani, C., 808
Roneker, K. R., 1725
Ropp, J. K., 3219
Rosendo, O., 1165
Rosenkrans, Jr., C. F., 878
Rosenstein, D., 1612, 2313
Ross, T. T., 3567
Roth, F. X., 1115
Roth, S., 3088
Rothschild, M. F., 2213, 2829
Rouse, G. H., 1272, 1621
Rowe, L. J., 785, 1195, 3254
Rowntree, J. E., 2995
Royo, L. J., 2246
Rozeboom, K. J., 2164
Rucker, E. B., 1967
Rude, B. J., 2919
Rudine, A. C., 2421
Ruggiero, K. M., 3088
Rule, D. C., 2985, 3577
Russell, J. R., 2503
Russell, L. E., 1685
Ryan, P. L., 2919

S

Sánchez, A., 1919, 1925
Sánchez, J. P., 1641
Sackmann, J. R., 851, 1419
Sainz, R. D., 292
Saker, K. E., 588
Salak-Johnson, J., 1942
Salfen, B. E., 1957
Salisbury, M. W., 3567
Salter, A. M., 231, 747
Salvador, I., 1641
Salyer, G. B., 2467
Sanchez, M.-P., 2865
Sanderson, R., 733
Sands, J. M., 1157
Sands, J. S., 715, 2657
Santacreu, M. A., 68, 1046
Santos, J. E. P., 3508
Sapp, R. L., 2277
Sargeant, J. M., 2148
Sasaki, I., 1329
Satoh, M., 2253
Sauer, W. C., 1997, 2647
Sawyer, J. E., 3646
Saxton, A. M., 2734
Sayd, T., 3128
Scanga, J. A., 2069
Schauer, C. S., 298, 1518, 1528, 2175
Scheaffer, A. N., 1826, 3024
Scholljegerdes, E. J., 1146, 3577
Schook, L. B., 1713

Schoonmaker, J. P., 137, 273
Schouten, W. G. P., 1227
Schrama, J. W., 1227
Schrick, F. N., 2175
Schultz, C. L., 3567
Schulze, H., 2657, 2657
Schwab, C. G., 3314
Schwartzkopf-Genswein, K. S., 3357
Schwörer, D., 3118
Sève, B., 1091
Sedivec, K. K., 298
See, M. T., 1454, 2004, 2474
Seidel, Jr., G. E., 1029
Sekiguchi, T., 1482
Sellers, H., 2428
Senneke, S. L., 2307
Serenius, T., 2301, 3111
Sessions, D. R., 2321
Settar, P., 1305
Sevinga, M., 982
Sevon-Aimónen, M.-L., 2301
Seymour, W. M., 1165
Shackelford, S. D., 238, 534, 557, 802, 1177, 1428, 3474
Shanks, R. D., 452
Shao, G., 2352
Shearer, J. K., 1165
Shelton, J. L., 1699, 2630
Sherrer, E. S., 102
Shibata, T., 994
Shimada, K., 2115
Shurson, G. C., 122
Silva, J. A. II V., 2519
Silvestre, M. A., 1641
Simm, G., 1290, 2234
Simmen, R. C. M., 2285
Simmins, P. H., 2657
Sinclair, L. A., 1461
Sindt, J. J., 1170, 3526
Sissom, E. K., 1868
Sklan, D. J., 1773
Slanger, W. D., 298
Slominski, B. A., 1053
Slow, S., 1553
Smiricky-Tjardes, M. R., 2610
Smith, D. R., 605
Smith, G. C., 2069
Smith, G. W., 1656
Smith, M. F., 695, 1016, 1022, 1543, 1967
Smith, R. A., 837, 845
Smith, S. B., 942
Smith, T. K., 2131
Smith, T. P. L., 2913, 3474
Smits, C. H. M., 551, 1401
Smits, R. J., 93
Snelling, W. M., 1, 967, 3405
Soboleva, T. K., 2329
Soede, N. M., 405
Sojka, J. E., 2640
Soltwedel, K. T., 1108
Sonon, R., 1410
Sorensen, M. T., 2343
Soto-Navarro, S. A., 1788, 1855, 3560, 3589
Southern, L. L., 705, 1699, 2392, 2630, 2972
Southey, B. R., 2892
Sowell, B. F., 2724
Spears, J. K., 1122, 1707
Spears, J. W., 1234, 2140
Spencer, J. D., 1732
Spencer, M. J., 794
Spicer, L. J., 459
Spiers, D. A., 878
Splan, R. K., 1007
Spoolder, H. A. M., 1246
Spratling, B. M., 198
Spurlock, M. E., 1630
Squires, E. L., 690
Ssu, K. W., 2588
St. Lawrence, A. C., 2978
Stacey, W. N., 2193
Stahl, C. A., 3034, 1725
Stalder, K. J., 2264, 3111
Staniar, W. B., 1007
Stanisiewski, E. P., 571
Steegmans, R., 2410
Stegner, J. E., 1016, 1022
Stein, H. H., 1339, 2568, 3518
Steingaß, H., 129
Stellflug, J. N., 3380
Stephens, J. W., 2077
Stevens, D. R., 1536
Stock, R. A., 2718, 3543
Stonehouse, P., 1678
Stormshak, F., 2815
Strauch, T. A., 1957
Streeter, M., 3357
Strickland, J., 2169
Strohbehn, D. R., 2503
Sturaro, E., 85, 808
Südekum, K.-H., 129
Suess, R., 816
Sugimoto, Y., 3415
Suh, T. K., 1029
Surber, L. M. M., 2087, 2724
Susenbeth, A., 129
Suzuki, K., 994
Swamy, H. V. L. N., 2131
Swanson, K. C., 495, 502, 1781
Swanson, K. S., 1713
Swartz, D. R., 1445

T

Tait, Jr., R. G., 1272, 1621
Tan, S. H., 3430
Tatum, J. D., 2069
Taverne, M. A. M., 405
Taylor, J. B., 1488, 1788
Taylor, L. E., 2623
Tedeschi, L. O., 149
Tempelman, R. J., 1589
Terzano, G. M., 438
Thaler, R. C., 3373
Thallman, R. M., 3474
Thewis, A., 1818
Therkildsen, M., 3617
Thippareddi, H., 1170
Thomas, M. G., 283
Thompson, F. N., 3388
Thomsen, H., 2213, 2829
Thonney, M. L., 3237
Ting, S. T. L., 1952
Titgemeyer, E. C., 487, 759, 884, 895, 3526, 3537
Tittor, A. W., 3308
Todoroki, J., 3415
Toepfer-Berg, T. L., 1942
Tokach, M. D., 250, 1499, 2013, 2428, 2750, 2945, 3058, 3154, 3482, 3635
Tolleson, D. R., 2773, 2773
Tong, G. Q., 3175
Torrentera, N., 1997
Torrey, S., 2105
Touchette, K. J., 2601
Trater, A. M., 3526
Treiber, K. H., 1007
Trenkle, A., 1410
Trenkle, A. H., 242
Trevisi, P., 1764
Trottier, N. L., 2953
Troy, D. J., 2384
Tsuchiya, N., 1329
Tubman, L. M., 1029
Tuchscherer, A., 1976
Tyler, H. D., 1663

U

Uchida, H., 994
Ulmer, D. N., 3662
Umberger, W. J., 3288, 3294, 3302
Unruh, J. A., 1863, 2077

V

Valencia, D. G., 526
Valkeners, D., 1818
Van Alstine, W. G., 1942
Van Amburgh, M. E., 1157
Van Arendonk, J. A. M., 1572
van Beers-Schreurs, H. M. G., 405
van der Lende, T., 2329
van der Peet-Schwering, C. M. C., 1246, 2964
van der Waaij, E. H., 973
VanDevander, K., 605
van Doorn, D. A., 1756
Vangen, O., 2528, 3458
van Heugten, E., 1454, 2004, 2601
Vanimisetti, H. B., 595, 1602
van Kempen, T. A. T. G., 1669, 2596
Van Kirk, E. A., 2548
van Milgen, J., 2013
van Rens, B. T. T. M., 2329
Van Soest, P. J., 149
Van Vleck, L. D., 54, 74, 647, 668, 1903, 1912, 2307
Vanzant, E. S., 307, 2175
Varel, V. H., 1740
Varona, L., 1925
Veiga, L., 3625
Veiseth, E., 1428
Veissier, I., 3321
Venot, E., 3465
Vereijken, P. F. G., 1246, 2964
Verheijden, J. H. M., 405
Vernazza Paganini, R. F., 292
Verstegen, M. W. A., 551, 1246, 1401, 2964
Veum, T. L., 1062, 1359
Vick, M. M., 2321
Vignola, M., 2343
Villanueva, B., 1305
Villaseñor, M., 3508
Vines, B., 2421
Vinet, A., 3465
Vinjamoori, D. V., 319
Visscher, P. M., 2234
Vogedes, L. A., 1986
von Borell, E., 816
Vrijenhoek, T., 982

W

Wagner, J. R., 3245
Wagner-Riddle, C., 1678
Wahlberg, M. L., 1323
Walker, S., 2259
Wall, P. B., 1621
Wallace, R. A., 867
Waller, J. C., 2734
Walling, G. A., 2234
Walz, L. S., 508
Wang, H.-S., 368
Wang, J. F., 2615
Wang, P. H., 683
Wang, Y., 198
Wang, Y. H., 3430
Wang, Z., 2615
Ward, M. M., 1234
Warner, R. D., 2558
Warren, L. K., 2978
Watanabe, T., 3415
Waterhouse, A., 1290
Watson, R. H., 3388
Watts, M., 3198
Waylan, A. T., 1863, 1868
Weaver, E., 2397
Webel, D. M., 1732
Weber, T. E., 1630
Webster, M. J., 250
Weis, R. N., 109
Weiss, D., 563
Weldon, W. C., 2474, 3245
Wellock, I. J., 2442
Wells, J. E., 3338
Wertz, A. E., 1410
West, C. P., 878
Wester, D. B., 2043, 2050, 2092, 2742
Wettemann, R. P., 2059
Wheeler, T. L., 238, 534, 557, 802, 1177, 1428, 3474
Whetsell, M. S., 1806
Whisnant, C. S., 2259
White, S. N., 3474
White, T. W., 508
Whitney, M. H., 122
Whittaker, A., 1669
Whittier, J. C., 2375
Wickersham, T. A., 884, 895
Widowski, T. M., 2105
Wiedmeier, R. D., 198, 3100
Wiegand, B. R., 2264
Wiegant, V. M., 1227
Wilborn, B. S., 218
Wilkinson, N. S., 1165
Wilkinson, R. G., 1461
Willenburg, K. L., 3088
Williams, C. A., 588
Williams, C. C., 508
Williams, C. M., 1234
Williams, G. J., 1855
Williams, G. L., 2930
Williams, S. B., 705
Wilson, A. D., 2234
Wilson, C. B., 2153
Wilson, D. E., 1272, 1621
Wilson, M. E., 2164
Wise, T., 459
Wise, T. H., 472
Wistuba, T. J., 1882
Wood, J. D., 1461
Woods, B. C., 884
Woodworth, J. C., 250, 2013
Woolliams, J. A., 384, 1305
Wouterse, H., 1756
Wu, C., 1359
Wu, C. W., 1062
Wu, G., 2534

Wu, G. M., 1967
Wubben, J. E., 2610
Wulf, D. M., 521
Wynn, R. J., 747

X

Xing, J. J., 2601
Xiong, T.-A., 368
Xiong, Y. L., 225

Y

Yáñez Ruiz, D. R., 2023, 3006
Yamakuchi, H., 3415
Yan, T., 1367, 1380
Yang, S.-H., 368
Yasui, T., 1847
Yen, J. T., 1079, 1740, 3338
Yilmaz, A., 2285
Yip, W. Y., 3175
Young, M. G., 2013, 3058
Youngblood, R. C., 2919
Yu, M., 368
Yu, S., 2352

Z

Zajac, A. M., 595, 1602
Zanella, A. J., 2806
Zepeda, H., 2169
Zerby, H. N., 273
Zhao, Q., 2229
Zhao, S.-H., 368
Zhou, H., 8
Zhu, M. J., 2541
Zhu, Y. H., 2615
Zieba, D. A., 2930
Zier, C. E., 3049
Zinn, S. A., 1646
ZoBell, D. R., 198

Subject index for Volume 82
(January through December 2004)

A

Absorption
The effects of cadmium in feed, and its amelioration with zinc, on element balances in sheep, 2489
Acid–Base Balance
Effects of handling intensity and live weight on blood acid–base status in finishing pigs, 2405
Physiological responses in swine treated with water containing sodium bicarbonate as a prophylactic for gastric ulcers, 2757
Acidifiers
Effect of plant extracts and formic acid on the intestinal equilibrium of early-weaned pigs, 3210
Acquired Immunity
Dietary supplementation with phosphorylated mannans improves growth response and modulates immune function of weanling pigs, 1882
Actin
Light microscopy and image analysis of thin filament lengths utilizing dual probes on beef, chicken, and rabbit myofibrils, 1445
Activity
Effect of nutrient restriction on calpain and calpastatin content of skeletal muscle from cows and fetuses, 2541
Acute-Phase Proteins
Effects of dietary energy and starch concentrations for newly received feedlot calves: II. Acute-phase protein response, 845
Acylation-Stimulating Protein
The adipocyte as an endocrine cell, 935
Acyl-CoA Oxidase
The effect of dietary docosahexaenoic acid on the expression of porcine lipid metabolism-related genes, 683
Adaptation
Coping capacity of dairy cows during the change from conventional to automatic milking, 563
Adapted
Preweaning efficiency for mature cows of breed crosses from tropically adapted *Bos indicus* and *Bos taurus* and unadapted *Bos taurus* breeds, 1876
Adipocyte Determination and Differentiation-Dependent Factor 1
The effect of dietary docosahexaenoic acid on the expression of porcine lipid metabolism-related genes, 683
Adipocyte Diameter
Effect of source and amount of energy and rate of growth in the growing phase on adipocyte cellularity and lipogenic enzyme activity in the intramuscular and subcutaneous fat depots of Holstein steers, 137
Adipocytes
Role of fatty acids in adipocyte growth and development, 916
Adiponectin
Cloning and expression of porcine adiponectin and adiponectin receptor 1 and 2 genes in pigs, 3162
Adiponectin Hormone
The adipocyte as an endocrine cell, 935
Adiponectin Receptor
Cloning and expression of porcine adiponectin and adiponectin receptor 1 and 2 genes in pigs, 3162
Adipose
Hormonal regulation of leptin and leptin receptor expression in porcine subcutaneous adipose tissue, 3486
Adipose Tissue
Cloning and expression of porcine adiponectin and adiponectin receptor 1 and 2 genes in pigs, 3162
Free-range rearing of pigs during the winter: Adaptations in muscle fiber characteristics and effects on adipose tissue composition and meat quality traits, 1206
Manipulation of the *n*-3 polyunsaturated fatty acid content of muscle and adipose tissue in lambs, 1461
Recruitment and differentiation of intramuscular preadipocytes in stromal-vascular cell cultures derived from neonatal pig semitendinosus muscles, 429
The adipocyte as an endocrine cell, 935
Adipose Tissue Development
Adipose tissue angiogenesis, 925
Admixture
Genetic relationships and admixture among sheep breeds from Northern Spain assessed using microsatellites, 2246
Adrenal Cortex
Coping capacity of dairy cows during the change from conventional to automatic milking, 563
Adrenergic Agonist
Effect of chronic clenbuterol administration and exercise training on immune function in horses, 3500
Adrenocorticotropic Hormone
Technical Note: Effect of corticotropin-releasing hormone on adrenocorticotropic hormone and cortisol in steers, 1952
Aging
Diet affects nutrient digestibility, hematology, and serum chemistry of senior and weanling dogs, 1713
Effect of supplemental vitamin D_3 concentration on concentrations of calcium, phosphorus, and magnesium relative to protein in subcellular components of the longissimus and the distribution of calcium within longissimus muscle of beef steers, 2742
Influence of quality classification, aging period, blade tenderization, and endpoint cooking temperature on cooking characteristics and tenderness of beef gluteus medius steaks, 1863
Agricultural By-Products
Use of pet food-grade poultry by-product meal as an alternate protein source in weanling pig diets, 3049
Agroterrorism
An unaddressed issue of agricultural terrorism: A case study on feed security, 3394
Alfalfa
Effects of supplementing with calcium salts of palm oil fatty acids or hydrogenated tallow on ewe milk production and twin lamb growth, 2780
Alkaline Phosphatase
Effects of combining three fungal phytases with a bacterial phytase on plasma phosphorus status of weanling pigs fed a corn-soy diet, 1725
Alkali Treatment
Effect of alkali pretreatment of wheat straw on the efficacy of exogenous fibrolytic enzymes, 198
Alkaloid
Evaluation of perennial ryegrass straw as a forage source for ruminants, 2175
Alpacas
An unaddressed issue of agricultural terrorism: A case study on feed security, 3394
Aluminum Chloride
Effect of aluminum chloride and dietary phytase on relative ammonia losses from swine manure, 605
Ambient Temperature
Performance of mouse lines divergently selected for heat loss when exposed to different environmental temperatures. II. Feed intake, growth, fatness, and body organs, 2884
Performance of mouse lines divergently selected for heat loss when exposed to different environmental temperatures. I. Reproductive performance, pup survival, and metabolic hormones, 2876
Amino Acid
Assessment of the feeding value of South Dakota—Grown field peas (*Pisum sativum* L.) for growing pigs, 2568
Chronic lung inflammation affects plasma amino acid concentrations in pigs, 1091
Digestibility of nitrogen and amino acids in soybean meal with added soyhulls, 715
Effect of phytase addition and dietary calcium and phosphorus levels on plasma metabolites and ileal and total-tract nutrient digestibility in pigs, 705
Effects of ammonia load on methionine utilization by growing steers, 3537

Histidine utilization by growing steers is not negatively affected by increased supply of either ammonia or amino acids, 759
Ileal amino acid digestibilities by pigs fed soybean meals from five major soybean-producing countries, 3198
Ileal amino acid digestibility and performance of growing pigs fed wheat-based diets supplemented with xylanase, 1997
Protein and lipid sources affect cholesterol concentrations of juvenile Pacific white shrimp, *Litopenaeus vannamei* (Boone), 1136
Relative ileal amino acid flows and microbial counts in intestinal effluents of Goettingen Minipigs and Saddleback pigs are not different, 1976
Site and extent of digestion and amino acid flow to the small intestine in beef cattle consuming limited amounts of forage, 1146
Technical note: Comparison of Raman, mid, and near infrared spectroscopy for predicting the amino acid content in animal meals, 2596
Use of chemical characteristics to predict the relative bioavailability of supplemental organic manganese sources for broilers, 2352
Amino Acid Digestibility
Effect of feed intake on endogenous losses and amino acid and energy digestibility by growing pigs, 3518
Refining in vitro digestibility assays: Fractionation of digestible and indigestible peptides, 1669
Amino Acid Transport
Dietary protein concentration affects plasma arteriovenous difference of amino acids across the porcine mammary gland, 2953
Ammonia
Effect of aluminum chloride and dietary phytase on relative ammonia losses from swine manure, 605
Effects of ammonia load on methionine utilization by growing steers, 3537
Ruminal and host adaptations to changes in frequency of protein supplementation, 895
α-Amylase
Pancreatic exocrine secretion and plasma concentration of some gastrointestinal hormones in response to abomasal infusion of starch hydrolyzate and/or casein, 1781
Anabolic Steroids
Effects of growth-promoting agents and season on yearling feedlot heifer performance, 2481
Analytical Procedure
Technical Note: A procedure for preparation and quantitative analysis of samples for titanium dioxide, 179
Anastomosis
Relative ileal amino acid flows and microbial counts in intestinal effluents of Goettingen Minipigs and Saddleback pigs are not different, 1976
Anestrus
Ability of intravaginal progesterone inserts and melengestrol acetate to induce estrous cycles in postpartum beef cows, 695
Angiotensin
Excess cortisol interferes with a principal mechanism of resistance to dehydration in *Bos indicus* steers, 1037
Animal Agriculture
Annual Meeting Keynote Address: Animal agriculture and emerging social ethics for animals, 955
Animal Behavior
A novel cognitive palatability assessment protocol for dogs *Canis familiaris*, 2200
Animal Breeding
A bioeconomic approach to derive economic values for pasture-based sheep genetic improvement programs, 1290
Animal Health
Identifying critical parameters in the dynamics and control of microparasite infection using a stochastic epidemiological model, 384
Animal Meal
Technical note: Comparison of Raman, mid, and near infrared spectroscopy for predicting the amino acid content in animal meals, 2596
Animal Plasma
Evaluation of methods to reduce bacteria concentrations in spray-dried animal plasma and its effects on nursery pig performance, 250
Animal Protein
Refining in vitro digestibility assays: Fractionation of digestible and indigestible peptides, 1669
Animal Scientists
Assessing attitudes toward farm animal welfare: A national survey of animal science faculty members, 2806
Animal Welfare
Assessing attitudes toward farm animal welfare: A national survey of animal science faculty members, 2806
Antibiotics
Effect of antibiotics in milk replacer on fecal shedding of *Escherichia coli* O157:H7 in calves, 2148
Antibody Isotypes
Leptin alters antibody isotype in the pig in vivo, but does not regulate cytokine expression or stimulate STAT3 signaling in peripheral blood monocytes in vitro, 1630
Antimicrobial
Effect of dietary mannanoligosaccharide and sodium chlorate on the growth performance, acute-phase response, and bacterial shedding of weaned pigs challenged with *Salmonella enterica* serotype Typhimurium, 397
Antioxidant
Vitamin E supplementation does not mitigate the acute morbidity effects of porcine reproductive and respiratory syndrome virus in nursery pigs, 1942
Apoptosis
Effect of epidermal growth factor and insulin-like growth factor I on porcine preantral follicular growth, antrum formation, and stimulation of granulosal cell proliferation and suppression of apoptosis in vitro, 1967
Appetite
Effects of exogenous ghrelin on feed intake, weight gain, behavior, and endocrine responses in weanling pigs, 1957
Arginine Vasopressin
Excess cortisol interferes with a principal mechanism of resistance to dehydration in *Bos indicus* steers, 1037
Artificial Insemination
A comparison of progestin-based protocols to synchronize estrus in postpartum beef cows, 1016
The reproductive performance and factors affecting on-farm application of low-dose intrauterine deposit of semen in sows, 2164
Ascorbate
Antioxidant supplementation and subsequent oxidative stress of horses during an 80-km endurance race, 588
Associative Effects
Interactions between supplement energy source and tall fescue hay maturity on forage utilization by beef steers, 307
Attitudes
Assessing attitudes toward farm animal welfare: A national survey of animal science faculty members, 2806
β-Adrenergic Receptors
Brown adipose tissue development and metabolism in ruminants, 942

B

Backfat
Comparison of three methods of feeding sows in gestation and the subsequent effects on lactation performance, 3058
Identification and fine mapping of quantitative trait loci for backfat on bovine chromosomes 2, 5, 6, 19, 21, and 23 in a commercial line of *Bos taurus*, 967
Backtest
Backtest type and housing condition of pigs influence energy metabolism, 1227
Bacteria
Estimation of the proportion of bacterial nitrogen in canine feces using diaminopimelic acid as an internal bacterial marker, 1707
Evaluation of methods to reduce bacteria concentrations in spray-dried animal plasma and its effects on nursery pig performance, 250
Balance
Copper proteinate in weanling pig diets for enhancing growth performance and reducing fecal copper excretion compared with copper sulfate, 1062
Barley
Effects of barley variety fed to steers on carcass characteristics and color of meat, 2087

Effects of increasing level of supplemental barley on forage intake, digestibility, and ruminal fermentation in steers fed medium quality grass hay, 3662
Effects of supplemental fat on growth performance and quality of beef from steers fed barley-potato product finishing diets: II. Fatty acid composition of muscle and subcutaneous fat, 3611
Barrows
Effect of feather meal on barrow performance, 2588
Bayesian Analysis
Comparing alternative definitions of the contemporary group effect in Avileña Negra Ibérica beef cattle using classical and Bayesian criteria, 3447
Genetic analysis of litter size, parturition length, and birth assistance requirements in primiparous sows using a joint linear-threshold animal model, 2528
Bayesian Inference
Hierarchical Bayes multiple-breed inference with an application to genetic evaluation of a Nelore-Hereford population, 1589
Bayesian Theory
Elliptical selection experiment for the estimation of genetic parameters of the growth rate and feed conversion ratio in rabbits, 654
Beef
Characterization of biological types of cattle (Cycle VI): Carcass, yield, and longissimus palatability traits, 1177
Characterization of Certified Angus Beef steaks from the round, loin, and chuck, 1437
Consumer acceptance of calcium chloride-marinated top loin steaks, 1471
Consumer visual preference and value for beef steaks differing in marbling level and color, 3288
Effect of supplemental vitamin D_3 concentration on concentrations of calcium, phosphorus, and magnesium relative to protein in subcellular components of the longissimus and the distribution of calcium within longissimus muscle of beef steers, 2742
Effects of biological type and dietary fat treatment on factors associated with tenderness: II. Measurements on beef semitendinosus muscle, 779
Effects of biological type and dietary fat treatment on factors associated with tenderness: I. Measurements on beef longissimus muscle, 770
Effects of biological type of beef steers on vitamin D, calcium, and phosphorus status, 2043
Effects of different grazing and feeding periods on performance and carcass traits of beef steers, 292
Effects of supplemental fat on growth performance and quality of beef from steers fed barley-potato product finishing diets: I. Feedlot performance, carcass traits, appearance, water binding, retail storage, and palatability attributes, 3600
Effects of supplemental rumen-protected conjugated linoleic acid or corn oil on fatty acid composition of adipose tissues in beef cattle, 1419
Effects of supplemental rumen-protected conjugated linoleic acid or linoleic acid on feedlot performance, carcass quality, and leptin concentrations in beef cattle, 851
Evaluating consumer acceptability of various muscles from the beef chuck and rib, 521
Feeding 25-hydroxyvitamin D_3 to improve beef tenderness, 1410
Influence of Ceftiofur sodium biobullet administration on tenderness and tissue damage in beef round muscle, 3308
Influence of early postmortem protein oxidation on beef quality, 785
Influence of quality classification, aging period, blade tenderization, and endpoint cooking temperature on cooking characteristics and tenderness of beef gluteus medius steaks, 1863
Joint analysis of multiple cDNA microarray studies via multivariate mixed models applied to genetic improvement of beef cattle, 3430
Light microscopy and image analysis of thin filament lengths utilizing dual probes on beef, chicken, and rabbit myofibrils, 1445
Mechanical probes can predict tenderness of cooked beef longissimus using uncooked measurements, 2077
Oxidative environments decrease tenderization of beef steaks through inactivation of μ-calpain, 3254
Supplemental vitamin D_3 concentration and biological type of steers: II. Tenderness, quality, and residues of beef, 2092
The accuracy and repeatability of untrained laboratory consumer panelists in detecting differences in beef longissimus tenderness, 557
The effects of the antioxidant lipoic acid on beef longissimus bloom time, 3034
The relationships among body weight, body composition, and intramuscular fat content in steers, 1315
The use of vitamin D_3 and its metabolites to improve beef tenderness, 242
Utilization of beef from different cattle phenotypes to produce a guaranteed tender beef product, 1190
Value of sunflower seed in finishing diets of feedlot cattle, 2679
Variation in palatability and biochemical traits within and among eleven beef muscles, 534
Vitamin D_3 supplementation of cull cows: Effects on longissimus and semitendinosus muscle tenderness, 225
Beef Cattle
A simulation exercise to teach principles of bovine reproductive management, 1543
Associations of polymorphisms in the *Pit-1* gene with growth and carcass traits in Angus beef cattle, 2229
Comparing alternative definitions of the contemporary group effect in Avileña Negra Ibérica beef cattle using classical and Bayesian criteria, 3447
Comparison of methods for handling censored records in beef fertility data: Field data, 357
Comparison of methods for handling censored records in beef fertility data: Simulation study, 351
Comparisons of Angus, Charolais, Galloway, Hereford, Longhorn, Nellore, Piedmontese, Salers, and Shorthorn breeds for weight, weight adjusted for condition score, height, and condition score of cows, 74
Constructing covariance functions for random regression models for growth in Gelbvieh beef cattle, 1564
Covariance functions and random regression models for cow weight in beef cattle, 54
Different measures of energetic efficiency and their phenotypic relationships with growth, feed intake, and ultrasound and carcass merit in hybrid cattle, 2451
Effect of Cu, Zn, and Mn supplementation and source on reproduction, mineral status, and performance in grazing beef cattle over a two-year period, 2375
Effect of flax supplementation and growth promotants on lipoprotein lipase and glycogenin messenger RNA concentrations in finishing cattle, 1868
Effect of organic matter addition to the pen surface and pen cleaning frequency on nitrogen mass balance in open feedlots, 2153
Effect of source and amount of energy and rate of growth in the growing phase on performance and carcass characteristics of early- and normal-weaned steers, 273
Effect of supplementation frequency and supplemental urea level on dormant, tallgrass-prairie hay intake and digestion by steers and prepartum performance of beef cows grazing dormant, tallgrass-prairie, 884
Effects of barley variety fed to steers on carcass characteristics and color of meat, 2087
Effects of copper and zinc source on performance and humoral immune response of newly received, lightweight beef heifers, 2467
Effects of crude protein concentration and degradability on performance, carcass characteristics, and serum urea nitrogen concentrations in finishing beef steers, 2705
Effects of supplemental fat on growth performance and quality of beef from steers fed barley-potato product finishing diets: II. Fatty acid composition of muscle and subcutaneous fat, 3611
Estimation of (co)variance components for reproductive traits in Angus beef cattle divergently selected for blood serum IGF-I concentration, 2285
Evaluating longevity of composite beef females using survival analysis techniques, 860
Evaluation of perennial ryegrass straw as a forage source for ruminants, 2175
Evaluation of Simmental carcass EPD estimated using live and carcass data, 661
Genetic evaluation of calving to first insemination using natural and artificial insemination mating data, 362
Genetic parameters for calving difficulty, stillbirth, and birth weight for Hereford and Charolais at first and later parities, 375
Genetic parameters for six measures of length of productive life and three measures of lifetime production by 6 yr after first calving for Hereford cows, 1912
Genetic relationships between calving and carcass traits for Charolais and Hereford cattle in Sweden, 2269

Genetic relationships between calving performance and beef production traits in Piemontese cattle, 3440
Genetic response to selection for weaning weight or yearling weight or yearling weight and muscle score in Hereford cattle: Efficiency of gain, growth, and carcass characteristics, 668
Growing and finishing performance of steers when fed recycled poultry bedding during the growing period, 3038
Hierarchical Bayes multiple-breed inference with an application to genetic evaluation of a Nelore-Hereford population, 1589
Influence of mass of ruminal contents on voluntary intake and digesta passage in steers fed a forage and a concentrate diet, 1806
Influence of supplemental cracked high-linoleate or high-oleate safflower seeds on site and extent of digestion in beef cattle, 3577
Methane emissions from beef cattle: Effects of monensin, sunflower oil, enzymes, yeast, and fumaric acid, 3346
Number of calves born, number of calves weaned, and cumulative weaning weight as measures of lifetime production for Hereford cows, 1903
Partitioning variances of growth in ultrasound longissimus muscle area measures in Angus bulls and heifers, 1272
Phenotypic relationships between longevity, type traits, and production in Chianina beef cattle, 1572
Productivity of cow–calf pairs grazing tall fescue pastures infected with either the wild-type endophyte or a nonergot alkaloid-producing endophyte strain, AR542, 3388
Rice mill feed as a replacement for broiler litter in diets for growing beef cattle, 2193
Site and extent of digestion and amino acid flow to the small intestine in beef cattle consuming limited amounts of forage, 1146
Supplemental vitamin D_3 concentration and biological type of beef steers: I. Feedlot performance and carcass traits, 2050
Synchronization of estrus in postpartum beef cows and virgin heifers using combinations of melengestrol acetate, GnRH, and $PGF_{2\alpha}$, 867
Teat scores in first-parity Gelbvieh cows: Relationship with suspensory score and calf growth traits, 2277
The relationship of average backfat thickness of feedlot steers to performance and relative efficiency of fat and protein retention, 3366
Threshold-linear analysis of measures of fertility in artificial insemination data and days to calving in beef cattle, 987
Use of structured antedependence models for the genetic analysis of growth curves, 3465

Beef Cow
Ability of intravaginal progesterone inserts and melengestrol acetate to induce estrous cycles in postpartum beef cows, 695
Follicular dynamics and steroid profiles in cows during and after treatment with progestin-based protocols for synchronization of estrus, 1022
Plasma hormones and metabolites in Piedmontese cows during late pregnancy: Relationships with calf birth weight, 438
Productivity and hay requirements of beef cattle in a Midwestern year-round grazing system, 2503

Beef Heifers
Comparison of target breeding weight and breeding date for replacement beef heifers and effects on subsequent reproduction and calf performance, 3094
Effect of increasing levels of undegradable intake protein on metabolic and endocrine factors in estrous cycling beef heifers, 283
Plasma concentrations of leptin, insulin-like growth factor-I, and insulin in relation to changes in body condition score in heifers, 445

Beef Production
Environmental impacts of the Japanese beef-fattening system with different feeding lengths as evaluated by a life-cycle assessment method, 2115

Beef Quality
A comparison of consumer sensory acceptance and value of domestic beef steaks and steaks from a branded, Argentine beef program, 3302
Consumer sensory acceptance and value for beef steaks of similar tenderness, but differing in marbling level, 3294
Influence of concentrate composition and forage type on retail packaged beef quality, 2384

Behavior
Effect of drinker type and sound stimuli on early-weaned pig performance and behavior, 2105
Effect of feed delivery fluctuations and feeding time on ruminal acidosis, growth performance, and feeding behavior of feedlot cattle, 3357

Bioavailability
Use of chemical characteristics to predict the relative bioavailability of supplemental organic manganese sources for broilers, 2352

Biochemical Transporters
Effect of nitrogen intake on nitrogen recycling and urea transporter abundance in lambs, 1157

Biological-Type
Supplemental vitamin D_3 concentration and biological type of steers: II. Tenderness, quality, and residues of beef, 2092

Biotin Balance
Balance and serum concentration of biotin in sheep fed alfalfa meal-based diets with increasing level of concentrate, 1165

Birth Weight
Effect of early gestation feeding, birth weight, and gender of progeny on muscle fiber characteristics of pigs at slaughter, 826
Effects of birth weight and postnatal nutrition on neonatal sheep: IV. Organ growth, 422
Genetic parameters for calving difficulty, stillbirth, and birth weight for Hereford and Charolais at first and later parities, 375
Genetic relationships between calving and carcass traits for Charolais and Hereford cattle in Sweden, 2269
Long-term, but not short-term, treatment with somatotropin during pregnancy in inderfed pigs increases the body size of progeny at birth, 93

Biuret
Daily and alternate day supplementation of urea or biuret to ruminants consuming low-quality forage: I. Effects on cow performance and the efficiency of nitrogen use in wethers, 1508
Daily and alternate-day supplementation of urea or biuret to ruminants consuming low-quality forage: II. Effects on site of digestion and microbial efficiency in steers, 1518
Daily and alternate-day supplementation of urea or biuret to ruminants consuming low-quality forage: III. Effects on ruminal fermentation characteristics in steers, 1528

Blood Cells
Effect of simulated ambient particulate matter exposure on performance, rectal temperature, and leukocytosis of young Spanish goats with or without tilmicosin phosphate, 1219
Isoleucine requirement for late-finishing (87 to 100 kg) pigs, 1334
Isoleucine requirements and ratios in starting (6 to 11 kg) pigs, 2333
Utilization of spray-dried blood cells and crystalline isoleucine in nursery pig diets, 2397

Blood Fatty Acid Profile
Evaluation of stabilized rice bran as an ingredient in dry extruded dog diets, 1122

Blood Flow
Splanchnic metabolism of VFA absorbed from the washed reticulorumen of steers, 2033

Blood Proteins
Effects of spray-dried animal plasma on intake and apparent digestibility in dogs, 1685

Blood Variables
Physiological responses in swine treated with water containing sodium bicarbonate as a prophylactic for gastric ulcers, 2757

Blood Vessel Development
Adipose tissue angiogenesis, 925

Bloom Time
The effects of the antioxidant lipoic acid on beef longissimus bloom time, 3034

Boar
Effect of vitamin supplements on some aspects of performance, vitamin status, and semen quality in boars, 626
Semen characteristics and libido in boars treated repeatedly with $PGF_{2\alpha}$, 1494

Boar Exposure
Effect of housing system and boar exposure on estrous expression in weaned sows, 3088

Body Composition
Effect of live weight gain of steers during winter grazing: I. Feedlot performance, carcass characteristics, and body composition of beef steers, 262

Performance of mouse lines divergently selected for heat loss when exposed to different environmental temperatures. II. Feed intake, growth, fatness, and body organs, 2884
The relationship of average backfat thickness of feedlot steers to performance and relative efficiency of fat and protein retention, 3366
Body Condition
The effect of body condition on disposition of alkaloids from silvery lupine (*Lupinus argenteus* Pursh) in sheep, 2798
Body Condition Score
Comparison of three methods of feeding sows in gestation and the subsequent effects on lactation performance, 3058
Body Dimensions
The physical size of gestating sows, 2421
Body Lean Mass
Evaluation of procedures to predict fat-free lean in swine carcasses, 2428
Body Weight
Effects of energy intake and body weight on physical and chemical body composition in growing entire male pigs, 109
Genetic parameters for indicators of host resistance to parasites from weaning to hogget age in Merino sheep, 2852
Bone
Short-duration exercise and confinement alters bone mineral content and shape in weanling horses, 2313
Bone Development
High-intensity exercise of short duration alters bovine bone density and shape, 1612
Bos indicus
Excess cortisol interferes with a principal mechanism of resistance to dehydration in *Bos indicus* steers, 1037
Bovidae
Brown adipose tissue development and metabolism in ruminants, 942
Bovine
Bovine metalloprotease characterization and in vitro connective tissue degradation, 1475
High-intensity exercise of short duration alters bovine bone density and shape, 1612
Inhibition of intrafollicular PGE_2 synthesis and ovulation following ultrasound-mediated intrafollicular injection of the selective cyclooxygenase-2 inhibitor NS-398 in cattle, 1656
The ontogeny of the somatotropic axis in Hereford calves from birth to one year of age and its response to administration of exogenous bovine somatotropin, 1646
Bovine Respiratory Disease
Effects of dietary energy and starch concentrations for newly received feedlot calves: II. Acute-phase protein response, 845
Boxer
Prevalence of spondylosis deformans and estimates of genetic parameters for the degree of osteophytes development in Italian Boxer dogs, 85
Brachiaria dictyoneura
Effects of *Sapindus saponaria* fruits on ruminal fermentation and duodenal nitrogen flow of sheep fed a tropical grass diet with and without legume, 1392
Brahman
Genetic and nongenetic influences on vigor at birth and preweaning mortality of purebred and high percentage Brahman calves, 1581
Breed
Relationship between litter birth weight and litter size in six breeds of sheep, 612
Breeding Dates
Comparison of target breeding weight and breeding date for replacement beef heifers and effects on subsequent reproduction and calf performance, 3094
Breeds
Characterization of biological types of cattle (Cycle VI): Carcass, yield, and longissimus palatability traits, 1177
Comparisons of Angus, Charolais, Galloway, Hereford, Longhorn, Nellore, Piedmontese, Salers, and Shorthorn breeds for weight, weight adjusted for condition score, height, and condition score of cows, 74
Effects of biological type of beef steers on vitamin D, calcium, and phosphorus status, 2043
Evaluation of Dorset, Finnsheep, Romanov, Texel, and Montadale breeds of sheep: IV. Survival, growth, and carcass traits of F_1 lambs, 3144
Growth and carcass characteristics of lambs sired by Dorper and Dorset rams, 1323
Maternal and reproductive performance of Brahman × Angus, Senepol × Angus, and Tuli × Angus cows in the subtropics, 2764
Myosin heavy chain composition of different skeletal muscles in Large White and Meishan pigs, 1931
Performance of hair sheep composite breeds: Resistance of lambs to *Haemonchus contortus*, 595
Broiler chickens
Effects of feeding blends of grains naturally contaminated with *Fusarium* mycotoxins on brain regional neurochemistry of starter pigs and broiler chickens, 2131
Broiler Litter
Growing and finishing performance of steers when fed recycled poultry bedding during the growing period, 3038
Rice mill feed as a replacement for broiler litter in diets for growing beef cattle, 2193
Broom Snakeweed
Conditioning cattle to graze broom snakeweed (*Gutierrezia sarothrae*), 3100
Brown Adipose Tissue
Brown adipose tissue development and metabolism in ruminants, 942
Bulls
Effect of imbalance between energy and nitrogen supplies on microbial protein synthesis and nitrogen metabolism in growing double-muscled Belgian Blue bulls, 1818
Butyric Acid
Effect of increasing ruminal butyrate absorption on splanchnic metabolism of volatile fatty acids absorbed from the washed reticulorumen of steers, 3549
By-Product
Effect of field pea replacement level on intake and digestion in beef steers fed by-product-based medium-concentrate diets, 1855

C

Cadmium
The effects of cadmium in feed, and its amelioration with zinc, on element balances in sheep, 2489
Calcium
Effect of supplemental vitamin D_3 concentration on concentrations of calcium, phosphorus, and magnesium relative to protein in subcellular components of the longissimus and the distribution of calcium within longissimus muscle of beef steers, 2742
Effects of biological type of beef steers on vitamin D, calcium, and phosphorus status, 2043
Improving pork quality by feeding supranutritional concentrations of vitamin D_3, 218
Supplemental vitamin D_3 concentration and biological type of beef steers: I. Feedlot performance and carcass traits, 2050
The apparent digestibility of phytate phosphorus and the influence of supplemental phytase in horses, 1756
The use of vitamin D_3 and its metabolites to improve beef tenderness, 242
Vitamin D_3 supplementation of cull cows: Effects on longissimus and semitendinosus muscle tenderness, 225
Calcium Chloride
Consumer acceptance of calcium chloride-marinated top loin steaks, 1471
Calf
Abundance of mRNA encoding for components of the somatotropic axis and insulin receptor in different layers of the jejunum and ileum of neonatal calves, 3181
Changes in plasma ghrelin and growth hormone concentrations in mature Holstein cows and three-month-old calves, 1329
Characteristics of calves produced with sperm sexed by flow cytometry/cell sorting, 1029
Effect of antibiotics in milk replacer on fecal shedding of *Escherichia coli* O157:H7 in calves, 2148
Effects of dietary energy and starch concentrations for newly received feedlot calves: I. Growth performance and health, 837
Genetic and nongenetic influences on vigor at birth and preweaning mortality of purebred and high percentage Brahman calves, 1581

Calpain
Association of markers in the bovine *CAPN1* gene with meat tenderness in large crossbred populations that sample influential industry sires, 3474
Compensatory growth improves meat tenderness in gilts but not in barrows, 3617
Early postmortem biochemical factors influence tenderness and water-holding capacity of three porcine muscles, 1195
Effect of nutrient restriction on calpain and calpastatin content of skeletal muscle from cows and fetuses, 2541
Indicators of tenderization are detectable by 12 h postmortem in ovine longissimus, 1428
Oxidative environments decrease tenderization of beef steaks through inactivation of μ-calpain, 3254
Postmortem proteolysis is reduced in transgenic mice over-expressing calpastatin, 794
Calpastatin
Early postmortem biochemical factors influence tenderness and water-holding capacity of three porcine muscles, 1195
Effect of nutrient restriction on calpain and calpastatin content of skeletal muscle from cows and fetuses, 2541
New alleles in calpastatin gene are associated with meat quality traits in pigs, 2829
Postmortem proteolysis is reduced in transgenic mice over-expressing calpastatin, 794
Calving Performance
Genetic relationships between calving performance and beef production traits in Piemontese cattle, 3440
Calving Rate
Maternal and reproductive performance of Brahman × Angus, Senepol × Angus, and Tuli × Angus cows in the subtropics, 2764
Canine
Effects of spray-dried animal plasma on intake and apparent digestibility in dogs, 1685
Evaluation of stabilized rice bran as an ingredient in dry extruded dog diets, 1122
Canis familiaris
A novel cognitive palatability assessment protocol for dogs *Canis familiaris*, 2200
Cannulation
Digestibility of nitrogen and amino acids in soybean meal with added soyhulls, 715
Capillaries
Adipose tissue angiogenesis, 925
Carbon Dioxide
Methane emissions from beef cattle: Effects of monensin, sunflower oil, enzymes, yeast, and fumaric acid, 3346
Carbon Dioxide Production
Oxidation of glucose, glutamate, and glutamine by isolated ovine enterocytes in vitro is decreased by the presence of other metabolic fuels, 479
Carcass
Association of myostatin on early calf mortality, growth, and carcass composition traits in crossbred cattle, 2913
Characterization of biological types of cattle (Cycle VI): Carcass, yield, and longissimus palatability traits, 1177
Effect of a ractopamine feeding program on growth performance and carcass composition in finishing pigs, 2474
Effect of supranutritional and organically bound selenium on performance, carcass characteristics, and selenium distribution in finishing beef steers, 1488
Effects of a quantitative trait locus for muscle hypertrophy from Belgian Texel sheep on carcass conformation and muscularity, 3128
Effects of different grazing and feeding periods on performance and carcass traits of beef steers, 292
Evaluation of Simmental carcass EPD estimated using live and carcass data, 661
Genetic associations of prolificacy with performance, carcass, meat quality, and leg conformation traits in the Finnish Landrace and Large White pig populations, 2301
Genetic response to selection for weaning weight or yearling weight or yearling weight and muscle score in Hereford cattle: Efficiency of gain, growth, and carcass characteristics, 668
Growth and carcass characteristics of lambs sired by Dorper and Dorset rams, 1323
National Pork Producers Council Maternal Line Genetic Evaluation: A comparison of growth and carcass traits in terminal progeny, 3482
Performance and carcass quality of steers fed different sources of dietary fat, 1794
Performance and carcass quality of steers fed whole raw soybeans at increasing inclusion levels, 725
Performance of growing-finishing pigs fed diets containing Roundup Ready corn (event nk603), a nontransgenic genetically similar corn, or conventional corn lines, 571
Responses to 19 generations of litter size selection in the NE Index line. II. Growth and carcass responses estimated in pure line and crossbred litters, 1895
The effect of dietary ractopamine concentration and duration of feeding on growth performance, carcass characteristics, and meat quality of finishing pigs, 3245
Carcass Characteristics
Effects of dietary lysine and energy density on performance and carcass characteristics of finishing pigs fed ractopamine, 3277
Effects of supplemental fat on growth performance and quality of beef from steers fed barley-potato product finishing diets: I. Feedlot performance, carcass traits, appearance, water binding, retail storage, and palatability attributes, 3600
Growing and finishing performance of steers when fed recycled poultry bedding during the growing period, 3038
Carcass Composition
Effect of nonwaxy and waxy sorghum on growth, carcass traits, and glucose and insulin kinetics of growing-finishing barrows and gilts, 1699
Effect of supplemental manganese on performance and carcass characteristics of growing-finishing swine, 3267
Effects of microbial phytase, low calcium and phosphorus, and removing the dietary trace mineral premix on carcass traits, pork quality, plasma metabolites, and tissue mineral content in growing-finishing pigs, 2630
Evaluation of Dorset, Finnsheep, Romanov, Texel, and Montadale breeds of sheep: IV. Survival, growth, and carcass traits of F_1 lambs, 3144
Genetic relationships between calving and carcass traits for Charolais and Hereford cattle in Sweden, 2269
Prediction of lamb carcass composition by impedance spectroscopy, 816
Carcass Merit
Different measures of energetic efficiency and their phenotypic relationships with growth, feed intake, and ultrasound and carcass merit in hybrid cattle, 2451
Carcass Quality
Effects of microbial phytase, low calcium and phosphorus, and removing the dietary trace mineral premix on carcass traits, pork quality, plasma metabolites, and tissue mineral content in growing-finishing pigs, 2630
The effect of selection for growth rate and slaughter age on carcass composition and meat quality traits in rabbits, 3138
The effects of gender and slaughter weight on the growth performance, carcass traits, and meat quality characteristics of heavy pigs, 526
Use of ultrasound to predict body composition changes in steers at 100 and 65 days before slaughter, 1621
Carcass Traits
Associations of polymorphisms in the *Pit-1* gene with growth and carcass traits in Angus beef cattle, 2229
Dried skim milk as a replacement for soybean meal in growing-finishing diets: Effects on growth performance, apparent total tract nitrogen digestibility, urinary and fecal nitrogen excretion, and carcass traits in pigs, 3338
Quantitative trait loci analysis for growth and carcass traits in a half-sib family of purebred Japanese Black (Wagyu) cattle, 3415
Carcass Yield
Use of ultrasound to predict body composition changes in steers at 100 and 65 days before slaughter, 1621
Carnitine
Influence of Carnichrome on the energy balance of gestating sows, 2013
Catecholamine
Effects of short-term early gestational exposure to endophyte-infected tall fescue diets on plasma 3,4-dihydroxyphenyl acetic acid and fetal development in mares, 2919
Categorical Survival Analysis
Viability of Iberian × Meishan F_2 newborn pigs. II. Survival analysis up to weaning, 1925

Cathepsin
Compensatory growth improves meat tenderness in gilts but not in barrows, 3617
Cattle
Assessment of positional candidate genes *myf5* and *igf1* for growth on bovine chromosome 5 in commercial lines of*Bos taurus*, 1
Association of markers in the bovine *CAPN1* gene with meat tenderness in large crossbred populations that sample influential industry sires, 3474
Effect of feed delivery fluctuations and feeding time on ruminal acidosis, growth performance, and feeding behavior of feedlot cattle, 3357
Effect of field pea level on intake, digestion, microbial efficiency, ruminal fermentation, and in situ disappearance in beef steers fed forage-based diets, 2185
Effect of field pea level on intake, digestion, microbial efficiency, ruminal fermentation, and in situ disappearance in beef steers fed growing diets, 2123
Effect of field pea replacement level on intake and digestion in beef steers fed by-product-based medium-concentrate diets, 1855
Effect of forage quality on digestion and performance responses of cattle to supplementation with cooked molasses blocks, 487
Effect of increasing ruminal butyrate absorption on splanchnic metabolism of volatile fatty acids absorbed from the washed reticulorumen of steers, 3549
Effect of live weight gain of steers during winter grazing: I. Feedlot performance, carcass characteristics, and body composition of beef steers, 262
Effect of Maillard reaction products on ruminal and fecal acid-resistant *E. coli*, total coliform, VFA profiles, and pH in steers, 1170
Effects of ammonia load on methionine utilization by growing steers, 3537
Effects of sire misidentification on estimates of genetic parameters for birth and weaning weights in Hereford cattle, 2307
Effects of wet corn gluten feed and intake level on diet digestibility and ruminal passage rate in steers, 3526
Energy requirements of cattle for standing and for ingestion, estimated by a ruminal emptying technique, 129
Growth rate and physiology of steers grazing tall fescue inoculated with novel endophytes, 878
Histidine utilization by growing steers is not negatively affected by increased supply of either ammonia or amino acids, 759
Identification and fine mapping of quantitative trait loci for backfat on bovine chromosomes 2, 5, 6, 19, 21, and 23 in a commercial line of *Bos taurus*, 967
Identification and fine mapping of quantitative trait loci for growth traits on bovine chromosomes 2, 6, 14, 19, 21, and 23 within one commercial line of *Bos taurus*, 3405
Influence of abomasal carbohydrates on small intestinal sodium-dependent glucose cotransporter activity and abundance in steers, 3015
In vitro effects of individual fatty acids on protozoal numbers and on fermentation products in ruminal fluid from cattle fed a high-concentrate, barley-based diet, 2693
Ovarian follicular development in cattle selected for twin ovulations and births, 459
Performance and carcass quality of steers fed whole raw soybeans at increasing inclusion levels, 725
Prediction of nutritive values in grass silages: II. Degradability of nitrogen and dry matter using digestibility, chemical composition, and fermentation data, 1380
Preweaning efficiency for mature cows of breed crosses from tropically adapted *Bos indicus* and *Bos taurus* and unadapted *Bos taurus* breeds, 1876
Quantitative trait loci analysis for growth and carcass traits in a half-sib family of purebred Japanese Black (Wagyu) cattle, 3415
Self-limiting supplements fed to cattle grazing native mixed-grass prairie in the northern Great Plains, 298
Splanchnic metabolism of VFA absorbed from the washed reticulorumen of steers, 2033
Utilization of beef from different cattle phenotypes to produce a guaranteed tender beef product, 1190
Cattle Breeds
Effects of endophyte-infected tall fescue on indicators of thermal status and growth in Hereford and Senepol steers, 634
Cattle Fattening
Environmental impacts of the Japanese beef-fattening system with different feeding lengths as evaluated by a life-cycle assessment method, 2115
Cattle Finishing
Effect of live weight gain of steers during winter grazing: III. Blood metabolites and hormones during feedlot finishing, 2059
Effect of live weight gain of steers during winter grazing: II. Visceral organ mass, cellularity, and oxygen consumption, 184
Cattle Manure
Effect of organic matter addition to the pen surface and pen cleaning frequency on nitrogen mass balance in open feedlots, 2153
Cecum
Soybean hulls as an alternative feed for horses, 1663
Cell Culture
Recruitment and differentiation of intramuscular preadipocytes in stromal-vascular cell cultures derived from neonatal pig semitendinosus muscles, 429
Cell Differentiation
Recruitment and differentiation of intramuscular preadipocytes in stromal-vascular cell cultures derived from neonatal pig semitendinosus muscles, 429
Cell Proliferation
Effect of epidermal growth factor and insulin-like growth factor I on porcine preantral follicular growth, antrum formation, and stimulation of granulosal cell proliferation and suppression of apoptosis in vitro, 1967
Cells
Effect of live weight gain of steers during winter grazing: II. Visceral organ mass, cellularity, and oxygen consumption, 184
Cellular Growth
Effect of high-selenium wheat on visceral organ mass, and intestinal cellularity and vascularity in finishing beef steers, 1788
Censored Records
Comparison of methods for handling censored records in beef fertility data: Field data, 357
Comparison of methods for handling censored records in beef fertility data: Simulation study, 351
Cereal Grains
Effects of cereal grain supplementation on apparent digestibility of nutrients and concentrations of fermentation end-products in the feces and serum of horses consuming alfalfa cubes, 1986
Chelation
Use of chemical characteristics to predict the relative bioavailability of supplemental organic manganese sources for broilers, 2352
Chianina
Phenotypic relationships between longevity, type traits, and production in Chianina beef cattle, 1572
Chicks
Effect of soybean variety and processing on growth performance of young chicks and pigs, 1108
High dietary phytase levels maximize phytate-phosphorus utilization but do not affect protein utilization in chicks fed phosphorus- or amino acid-deficient diets, 1100
Pharmacological zinc levels reduce the phosphorus-releasing efficacy of phytase in young pigs and chickens, 1732
Chicory Inulin
Excretion of major odor-causing and acidifying compounds in response to dietary supplementation of chicory inulin in growing pigs, 1678
Chilling
Rapid chilling cannot prevent inferior pork quality caused by high preslaughter stress, 551
Chinese Indigenous Population
Genetic diversity analyses of 10 indigenous Chinese pig populations based on 20 microsatellites, 368
Cholesterol
Effect of hypothyroidism on the blood lipid response to higher dietary fat intake in mares, 2640
Protein and lipid sources affect cholesterol concentrations of juvenile Pacific white shrimp, *Litopenaeus vannamei* (Boone), 1136
Chromium
A regional evaluation of chromium tripicolinate supplementation of diets fed to reproducing sows, 2972
Influence of Carnichrome on the energy balance of gestating sows, 2013

Chuck
Evaluating consumer acceptability of various muscles from the beef chuck and rib, 521
Clusters
Comparing alternative definitions of the contemporary group effect in Avileña Negra Ibérica beef cattle using classical and Bayesian criteria, 3447
Cognitive
A novel cognitive palatability assessment protocol for dogs *Canis familiaris*, 2200
Collagenase
Bovine metalloprotease characterization and in vitro connective tissue degradation, 1475
Collagen
Bovine metalloprotease characterization and in vitro connective tissue degradation, 1475
Effects of biological type and dietary fat treatment on factors associated with tenderness: I. Measurements on beef longissimus muscle, 770
Variation in palatability and biochemical traits within and among eleven beef muscles, 534
Color
Effects of barley variety fed to steers on carcass characteristics and color of meat, 2087
Effects of supplemental fat on growth performance and quality of beef from steers fed barley-potato product finishing diets: I. Feedlot performance, carcass traits, appearance, water binding, retail storage, and palatability attributes, 3600
Influence of concentrate composition and forage type on retail packaged beef quality, 2384
The effects of the antioxidant lipoic acid on beef longissimus bloom time, 3034
Colostrum
Nucleotides in sow colostrum and milk at different stages of lactation, 1339
Compensatory Growth
Compensatory growth and nitrogen balance in grower-finisher pigs, 2579
Complementary DNA
A mixed-model approach for the analysis of cDNA microarray gene expression data from extreme-performing pigs after infection with *Actinobacillus pleuropneumoniae*, 1261
Joint analysis of multiple cDNA microarray studies via multivariate mixed models applied to genetic improvement of beef cattle, 3430
Complexes
Use of chemical characteristics to predict the relative bioavailability of supplemental organic manganese sources for broilers, 2352
Composition
Partitioning variances of growth in ultrasound longissimus muscle area measures in Angus bulls and heifers, 1272
Computer Image Analysis
Computer image analysis for measuring lean and fatty areas in cross-sectioned dry-cured hams, 808
Concentrate
Balance and serum concentration of biotin in sheep fed alfalfa meal-based diets with increasing level of concentrate, 1165
Influence of concentrate composition and forage type on retail packaged beef quality, 2384
Influence of mass of ruminal contents on voluntary intake and digesta passage in steers fed a forage and a concentrate diet, 1806
Conceptus
Conceptus and maternal responses to increased feed intake during early gestation in pigs, 3154
Conductivity
Indicators of tenderization are detectable by 12 h postmortem in ovine longissimus, 1428
Confinement
High-intensity exercise of short duration alters bovine bone density and shape, 1612
Short-duration exercise and confinement alters bone mineral content and shape in weanling horses, 2313
Conjugated Linoleic Acid
Differing effects of forage and concentrate diets on the oleic acid and conjugated linoleic acid content of sheep tissues: The role of stearoyl-CoA desaturase, 747
Effects of supplemental fat on growth performance and quality of beef from steers fed barley-potato product finishing diets: II. Fatty acid composition of muscle and subcutaneous fat, 3611
Effects of supplemental rumen-protected conjugated linoleic acid or corn oil on fatty acid composition of adipose tissues in beef cattle, 1419
Effects of supplemental rumen-protected conjugated linoleic acid or linoleic acid on feedlot performance, carcass quality, and leptin concentrations in beef cattle, 851
Role of fatty acids in adipocyte growth and development, 916
Soybean oil supplementation of a high-concentrate diet does not affect site and extent of organic matter, starch, neutral detergent fiber, or nitrogen digestion, but influences both ruminal metabolism and intestinal flow of fatty acids in limit-fed lambs, 2985
Connective Tissue
Effects of biological type and dietary fat treatment on factors associated with tenderness: II. Measurements on beef semitendinosus muscle, 779
Consumer
Consumer acceptance of calcium chloride-marinated top loin steaks, 1471
Evaluating consumer acceptability of various muscles from the beef chuck and rib, 521
The accuracy and repeatability of untrained laboratory consumer panelists in detecting differences in beef longissimus tenderness, 557
Consumer Panels
A comparison of consumer sensory acceptance and value of domestic beef steaks and steaks from a branded, Argentine beef program, 3302
Consumer sensory acceptance and value for beef steaks of similar tenderness, but differing in marbling level, 3294
Consumer Preferences
Consumer visual preference and value for beef steaks differing in marbling level and color, 3288
Consumer Prices
A comparison of consumer sensory acceptance and value of domestic beef steaks and steaks from a branded, Argentine beef program, 3302
Consumer sensory acceptance and value for beef steaks of similar tenderness, but differing in marbling level, 3294
Contemporary Groups
Comparing alternative definitions of the contemporary group effect in Avileña Negra Ibérica beef cattle using classical and Bayesian criteria, 3447
Cooked Molasses Block
Effect of forage quality on digestion and performance responses of cattle to supplementation with cooked molasses blocks, 487
Cookery
Evaluation of sampling, cookery, and shear force protocols for objective evaluation of lamb longissimus tenderness, 802
Cooking
Technical Note: Use of belt grill cookery and slice shear force for assessment of pork longissimus tenderness, 238
Cooling
Pregnancy rates of mares inseminated with semen cooled for 18 hours then frozen, 690
Coping Strategy
Backtest type and housing condition of pigs influence energy metabolism, 1227
Copper
Copper proteinate in weanling pig diets for enhancing growth performance and reducing fecal copper excretion comapred with copper sulfate, 1062
Effect of dietary copper source (cupric citrate and cupric sulfate) and concentration on growth performance and fecal copper excretion in weanling pigs, 1234
Effect of dietary trace mineral concentration and source (inorganic vs. chelated) on performance, mineral status, and fecal mineral excretion in pigs from weaning through finishing, 2140
Effects of copper and zinc source on performance and humoral immune response of newly received, lightweight beef heifers, 2467
Pharmacological zinc levels reduce the phosphorus-releasing efficacy of phytase in young pigs and chickens, 1732
Corn
Effect of energy source and ruminally degradable protein addition on performance of lactating beef cows and digestion characteristics of steers[1], 2667

Effect of field pea level on intake, digestion, microbial efficiency, ruminal fermentation, and in situ disappearance in beef steers fed growing diets, 2123
Effects of barley variety fed to steers on carcass characteristics and color of meat, 2087
Corn Bran
Effects of dry, wet, and rehydrated corn bran and corn processing method in beef finishing diets, 3543
Corn Gluten Feed
Effects of concentration and composition of wet corn gluten feed in steam-flaked corn-based finishing diets, 2718
Effects of dry, wet, and rehydrated corn bran and corn processing method in beef finishing diets, 3543
Corn Processing
Effects of dry, wet, and rehydrated corn bran and corn processing method in beef finishing diets, 3543
Corn Supplementation
Fermentation of eastern gamagrass (*Tripsacum dactyloides* [L.] L.) by mixed cultures of ruminal microorganisms with or without supplemental corn, 170
Corpora Lutea
Lack of an association between plasma follicle-stimulating hormone concentrations and ovarian weight in prepubertal gilts, 472
Correlated Responses
Selection for growth in brown trout increases feed intake capacity without affecting maintenance and growth requirements, 2865
Correlation
Genetic response to selection for weaning weight or yearling weight or yearling weight and muscle score in Hereford cattle: Efficiency of gain, growth, and carcass characteristics, 668
Corticotropin-Releasing Hormone
Technical Note: Effect of corticotropin-releasing hormone on adrenocorticotropic hormone and cortisol in steers, 1952
Cortisol
Technical Note: Effect of corticotropin-releasing hormone on adrenocorticotropic hormone and cortisol in steers, 1952
Cow
Changes in plasma ghrelin and growth hormone concentrations in mature Holstein cows and three-month-old calves, 1329
Effect of energy source and ruminally degradable protein addition on performance of lactating beef cows and digestion characteristics of steers[1], 2667
Effect of nutrient restriction on calpain and calpastatin content of skeletal muscle from cows and fetuses, 2541
Effect of Se on selenoprotein activity and thyroid hormone metabolism in beef and dairy cows and calves, 2995
Cow–Calf
Productivity of cow–calf pairs grazing tall fescue pastures infected with either the wild-type endophyte or a nonergot alkaloid-producing endophyte strain, AR542, 3388
Crates
Effect of housing system and boar exposure on estrous expression in weaned sows, 3088
Cratylia argentea
Effects of *Sapindus saponaria* fruits on ruminal fermentation and duodenal nitrogen flow of sheep fed a tropical grass diet with and without legume, 1392
Crossbred Cattle
Association of myostatin on early calf mortality, growth, and carcass composition traits in crossbred cattle, 2913
Crossbred Sheep
Evaluation of Dorset, Finnsheep, Romanov, Texel, and Montadale breeds of sheep: III. Wool characteristics of F_1 ewes, 2293
Crossbreeding
Hierarchical Bayes multiple-breed inference with an application to genetic evaluation of a Nelore-Hereford population, 1589
Maternal and reproductive performance of Brahman × Angus, Senepol × Angus, and Tuli × Angus cows in the subtropics, 2764
Responses to 19 generations of litter size selection in the Nebraska Index line. I. Reproductive responses estimated in pure line and crossbred litters, 1000
Responses to 19 generations of litter size selection in the NE Index line. II. Growth and carcass responses estimated in pure line and crossbred litters, 1895
Crude Protein Concentration
Effects of crude protein concentration and degradability on performance, carcass characteristics, and serum urea nitrogen concentrations in finishing beef steers, 2705
Crystalline Amino Acids
Difference in rates of net portal absorption between crystalline and protein-bound lysine and threonine in growing pigs fed once daily, 1079
Cubicles
Cubicle housing systems for cattle: Comfort of dairy cows depends on cubicle adjustment, 3321
Cull Cows
Effects of feeding strategy and age on live animal performance, carcass characteristics, and economics of short-term feeding programs for culled beef cows, 3646
Cupric Citrate
Effect of dietary copper source (cupric citrate and cupric sulfate) and concentration on growth performance and fecal copper excretion in weanling pigs, 1234
Curriculum
A simulation exercise to teach principles of bovine reproductive management, 1543
α-Cyclodextrin-Horseradish Oil Complex
Effect of Japanese horseradish oil on methane production and ruminal fermentation in vitro and in steers, 1839
Cytokines
Spray-dried plasma improves growth performance and reduces inflammatory status of weaned pigs challenged with enterotoxigenic *Escherichia coli* K88, 1764
Vitamin E supplementation does not mitigate the acute morbidity effects of porcine reproductive and respiratory syndrome virus in nursery pigs, 1942

D

Dairy Cattle
Coping capacity of dairy cows during the change from conventional to automatic milking, 563
Dairy Cows
Cubicle housing systems for cattle: Comfort of dairy cows depends on cubicle adjustment, 3321
Effect of addition of a progesterone intravaginal insert to a timed insemination protocol using estradiol cypionate on ovulation rate, pregnancy rate, and late embryonic loss in lactating dairy cows, 3508
Effect of dietary crude protein level and degradability on ruminal fermentation and nitrogen utilization in lactating dairy cows, 3219
Dairy Heifers
Ionophore taste preferences of dairy heifers, 3314
Dehydration
Excess cortisol interferes with a principal mechanism of resistance to dehydration in *Bos indicus* steers, 1037
Desmin
Compensatory growth improves meat tenderness in gilts but not in barrows, 3617
Development
Effects of elevated temperature in vivo on the maturational and developmental competence of porcine germinal vesicle stage oocytes, 3175
Diaminopimelic Acid
Estimation of the proportion of bacterial nitrogen in canine feces using diaminopimelic acid as an internal bacterial marker, 1707
Diarrhea
Effect of diet composition on postweaning colibacillosis in piglets, 2364
Diet
Balance and serum concentration of biotin in sheep fed alfalfa meal-based diets with increasing level of concentrate, 1165
Differing effects of forage and concentrate diets on the oleic acid and conjugated linoleic acid content of sheep tissues: The role of stearoyl-CoA desaturase, 747
Effects of diet complexity and dietary lactose levels during three starter phases on postweaning pig performance, 2790
Diet Adaptation
Effects of feeding strategy and age on live animal performance, carcass characteristics, and economics of short-term feeding programs for culled beef cows, 3646

Dietary Crude Protein
Dietary protein concentration affects plasma arteriovenous difference of amino acids across the porcine mammary gland, 2953
Dietary Fat
Performance and carcass quality of steers fed different sources of dietary fat, 1794
The effect of dietary fish oil supplementation on exercising horses, 2978
Dietary Fiber
In vitro fermentation of various fiber and starch sources by pig fecal inocula, 2615
Dietary Protein
Effect of dietary crude protein level and degradability on ruminal fermentation and nitrogen utilization in lactating dairy cows, 3219
Long-term, but not short-term, treatment with somatotropin during pregnancy in inderfed pigs increases the body size of progeny at birth, 93
Dietary Restriction
Compensatory growth and nitrogen balance in grower-finisher pigs, 2579
Effect of dietary restriction, pregnancy, and fetal type on intestinal cellularity and vascularity in Columbia and Romanov ewes, 3024
The effect of dietary restriction, pregnancy, and fetal type in different ewe types on fetal weight, maternal body weight, and visceral organ mass in ewes, 1826
Diet Training
Conditioning cattle to graze broom snakeweed (*Gutierrezia sarothrae*), 3100
Differential Display Polymerase Chain Reaction
Evaluation of gene expression in pigs selected for enhanced reproduction using differential display PCR and human microarrays: I. Ovarian follicles, 17
Digesta
Flow paths of plant tissue residues and digesta through gastrointestinal segments in Spanish goats and methodological considerations, 508
Digestibility
Assessment of the feeding value of South Dakota-grown field peas (*Pisum sativum* L.) for growing pigs, 2568
Digestibility of nitrogen and amino acids in soybean meal with added soyhulls, 715
Effect of fiber-based creep feed on intake, digestion, ruminal fermentation, and microbial efficiency in nursing calves, 3560
Effect of field pea-based creep feed on intake, digestibility, ruminal fermentation, and performance by nursing calves grazing native range in western North Dakota, 3589
Effect of field pea level on intake, digestion, microbial efficiency, ruminal fermentation, and in situ disappearance in beef steers fed forage-based diets, 2185
Effect of field pea level on intake, digestion, microbial efficiency, ruminal fermentation, and in situ disappearance in beef steers fed growing diets, 2123
Effect of field pea replacement level on intake and digestion in beef steers fed by-product-based medium-concentrate diets, 1855
Effect of phytase addition and dietary calcium and phosphorus levels on plasma metabolites and ileal and total-tract nutrient digestibility in pigs, 705
Effect of supplementation of xylanase and phospholipase to a wheat-based diet for weanling pigs on nutrient digestibility and concentrations of microbial metabolites in ileal digesta and feces, 2647
Effects of emulsification, fat encapsulation, and pelleting on weanling pig performance and nutrient digestibility, 2601
Effects of increasing level of supplemental barley on forage intake, digestibility, and ruminal fermentation in steers fed medium quality grass hay, 3662
Effects of spray-dried animal plasma on intake and apparent digestibility in dogs, 1685
Effects of supplemental protein type on intake, nitrogen balance, and site, and extent of digestion in whiteface wethers consuming low-quality grass hay, 3567
Effects of wet corn gluten feed and intake level on diet digestibility and ruminal passage rate in steers, 3526
Evaluation of stabilized rice bran as an ingredient in dry extruded dog diets, 1122
Fat digestibility in *Equus caballus* follows increasing first-order kinetics, 1773
Ileal amino acid digestibilities by pigs fed soybean meals from five major soybean-producing countries, 3198
Interactions between supplement energy source and tall fescue hay maturity on forage utilization by beef steers, 307
Nutritional value of a corn containing a glutamate dehydrogenase gene for growing pigs, 1693
Prediction of nutritive values in grass silages: I. Nutrient digestibility and energy concentrations using nutrient compositions and fermentation characteristics, 1367
Relative ileal amino acid flows and microbial counts in intestinal effluents of Goettingen Minipigs and Saddleback pigs are not different, 1976
Technical Note: A procedure for preparation and quantitative analysis of samples for titanium dioxide, 179
Digestible Energy
Effects of energy intake and body weight on physical and chemical body composition in growing entire male pigs, 109
Digestion
Effect of alkali pretreatment of wheat straw on the efficacy of exogenous fibrolytic enzymes, 198
Effect of energy source and ruminally degradable protein addition on performance of lactating beef cows and digestion characteristics of steers[1], 2667
Effects of cereal grain supplementation on apparent digestibility of nutrients and concentrations of fermentation end-products in the feces and serum of horses consuming alfalfa cubes, 1986
Influence of supplemental cracked high-linoleate or high-oleate safflower seeds on site and extent of digestion in beef cattle, 3577
Site and extent of digestion and amino acid flow to the small intestine in beef cattle consuming limited amounts of forage, 1146
Disease
Performance of hair sheep composite breeds: Resistance of lambs to *Haemonchus contortus*, 595
Disease Resistance
Identifying critical parameters in the dynamics and control of microparasite infection using a stochastic epidemiological model, 384
Disease Transmission
Identifying critical parameters in the dynamics and control of microparasite infection using a stochastic epidemiological model, 384
Disheveled
Adipogenesis: Usefulness of in vitro and in vivo experimental models, 905
Distiller's Dried Grains with Solubles
Growth performance of nursery pigs fed diets containing increasing levels of corn distiller's dried grains with solubles originating from a modern Midwestern ethanol plant, 122
Distribution
Effect of supranutritional and organically bound selenium on performance, carcass characteristics, and selenium distribution in finishing beef steers, 1488
Growing and finishing performance of steers when fed recycled poultry bedding during the growing period, 3038
Docosahexaenoic Acid
The effect of dietary docosahexaenoic acid on the expression of porcine lipid metabolism-related genes, 683
Dog
A novel cognitive palatability assessment protocol for dogs *Canis familiaris*, 2200
Diet affects nutrient digestibility, hematology, and serum chemistry of senior and weanling dogs, 1713
Estimation of the proportion of bacterial nitrogen in canine feces using diaminopimelic acid as an internal bacterial marker, 1707
Prevalence of spondylosis deformans and estimates of genetic parameters for the degree of osteophytes development in Italian Boxer dogs, 85
Dorper
Growth and carcass characteristics of lambs sired by Dorper and Dorset rams, 1323
DQA1
Allelic polymorphism in the ovine *DQA1* gene, 8
DQA2
Diversity of the ovine *DQA2* gene, 1553
Dried Skim Milk
Dried skim milk as a replacement for soybean meal in growing-finishing diets: Effects on growth performance, apparent total

tract nitrogen digestibility, urinary and fecal nitrogen excretion, and carcass traits in pigs, 3338
Drinker
Effect of drinker type and sound stimuli on early-weaned pig performance and behavior, 2105
Dry Matter Degradability
Prediction of nutritive values in grass silages: II. Degradability of nitrogen and dry matter using digestibility, chemical composition, and fermentation data, 1380
Duodenum
Oxidation of glucose, glutamate, and glutamine by isolated ovine enterocytes in vitro is decreased by the presence of other metabolic fuels, 479
Dust
Effect of simulated ambient particulate matter exposure on performance, rectal temperature, and leukocytosis of young Spanish goats with or without tilmicosin phosphate, 1219
Dystocia
Genetic analysis of litter size, parturition length, and birth assistance requirements in primiparous sows using a joint linear-threshold animal model, 2528
Genetic parameters for calving difficulty, stillbirth, and birth weight for Hereford and Charolais at first and later parities, 375
Genetic relationships between calving and carcass traits for Charolais and Hereford cattle in Sweden, 2269

E

Early-Weaned Pigs
Dietary supplementation with multienzyme preparations improves nutrient utilization and growth performance in weaned pigs, 1053
Early Weaning
Effect of drinker type and sound stimuli on early-weaned pig performance and behavior, 2105
Effect of source and amount of energy and rate of growth in the growing phase on performance and carcass characteristics of early- and normal-weaned steers, 273
Efficiency
Different measures of energetic efficiency and their phenotypic relationships with growth, feed intake, and ultrasound and carcass merit in hybrid cattle, 2451
Maternal and reproductive performance of Brahman × Angus, Senepol × Angus, and Tuli × Angus cows in the subtropics, 2764
Preweaning efficiency for mature cows of breed crosses from tropically adapted *Bos indicus* and *Bos taurus* and unadapted *Bos taurus* breeds, 1876
Eicosanoid
Evaluation of stabilized rice bran as an ingredient in dry extruded dog diets, 1122
Elliptical Selection
Elliptical selection experiment for the estimation of genetic parameters of the growth rate and feed conversion ratio in rabbits, 654
Embryo Culture
Fertilization and blastocyst development in oocytes obtained from prepubertal and adult pigs, 102
Embryonic Effects
The effect of divergent selection for uterine capacity on fetal and placental development at term in rabbits: maternal and embryonic genetic effects, 1046
The effect of divergent selection for uterine capacity on prenatal survival in rabbits: Maternal and embryonic genetic effects, 68
Emulsifier
Effects of emulsification, fat encapsulation, and pelleting on weanling pig performance and nutrient digestibility, 2601
Encapsulated Fat
Effects of emulsification, fat encapsulation, and pelleting on weanling pig performance and nutrient digestibility, 2601
Endogenous Losses
Effect of feed intake on endogenous losses and amino acid and energy digestibility by growing pigs, 3518
Endophyte
Evaluation of perennial ryegrass straw as a forage source for ruminants, 2175
Productivity of cow–calf pairs grazing tall fescue pastures infected with either the wild-type endophyte or a nonergot alkaloid-producing endophyte strain, AR542, 3388
The toxicosis of *Embellisia* fungi from locoweed (*Oxytropis lambertii*) is similar to locoweed toxicosis in rats, 2169
Endurance Exercise
Antioxidant supplementation and subsequent oxidative stress of horses during an 80-km endurance race, 588
Energetics
Metabolic and microbial responses in western crossbred and Meishan growing pigs fed a high-fiber diet, 1740
Energy
A mechanistic model for predicting the nutrient requirements and feed biological values for sheep, 149
Assessment of the feeding value of South Dakota-grown field peas (*Pisum sativum* L.) for growing pigs, 2568
Effect of imbalance between energy and nitrogen supplies on microbial protein synthesis and nitrogen metabolism in growing double-muscled Belgian Blue bulls, 1818
Effect of phytase addition and dietary calcium and phosphorus levels on plasma metabolites and ileal and total-tract nutrient digestibility in pigs, 705
Effects of dietary energy and starch concentrations for newly received feedlot calves: I. Growth performance and health, 837
Effects of dietary energy and starch concentrations for newly received feedlot calves: II. Acute-phase protein response, 845
Effects of dietary lysine and energy density on performance and carcass characteristics of finishing pigs fed ractopamine, 3277
Energy Concentration
Prediction of nutritive values in grass silages: I. Nutrient digestibility and energy concentrations using nutrient compositions and fermentation characteristics, 1367
Energy Cost of Activities
Energy requirements of cattle for standing and for ingestion, estimated by a ruminal emptying technique, 129
Energy Metabolism
Backtest type and housing condition of pigs influence energy metabolism, 1227
Effect of increasing ruminal butyrate absorption on splanchnic metabolism of volatile fatty acids absorbed from the washed reticulorumen of steers, 3549
Splanchnic metabolism of VFA absorbed from the washed reticulorumen of steers, 2033
Energy Partitioning
Effects of energy intake and body weight on physical and chemical body composition in growing entire male pigs, 109
Energy Requirements
Energy requirements of cattle for standing and for ingestion, estimated by a ruminal emptying technique, 129
Selection for growth in brown trout increases feed intake capacity without affecting maintenance and growth requirements, 2865
Enterotoxigenic *Escherichia coli*
Effect of diet composition on postweaning colibacillosis in piglets, 2364
Environment
Effects of growth-promoting agents and season on yearling feedlot heifer performance, 2481
Environmental effects on pig performance, meat quality, and muscle characteristics, 209
Environmental Impact
Environmental impacts of the Japanese beef-fattening system with different feeding lengths as evaluated by a life-cycle assessment method, 2115
Environmental Sensitivity,
A resource allocation model describing consequences of artificial selection under metabolic stress, 973
Enzyme
Bovine metalloprotease characterization and in vitro connective tissue degradation, 1475
Effect of alkali pretreatment of wheat straw on the efficacy of exogenous fibrolytic enzymes, 198
Effect of supplementation of xylanase and phospholipase to a wheat-based diet for weanling pigs on nutrient digestibility and concentrations of microbial metabolites in ileal digesta and feces, 2647
Enzyme Activity
Myosin heavy chain composition of different skeletal muscles in Large White and Meishan pigs, 1931

Enzyme Kinetics
Fat digestibility in *Equus caballus* follows increasing first-order kinetics, 1773
Epidemiology
Identifying critical parameters in the dynamics and control of microparasite infection using a stochastic epidemiological model, 384
Epidermal Growth Factor
Effect of epidermal growth factor and insulin-like growth factor I on porcine preantral follicular growth, antrum formation, and stimulation of granulosal cell proliferation and suppression of apoptosis in vitro, 1967
Equine
Antioxidant supplementation and subsequent oxidative stress of horses during an 80-km endurance race, 588
Development of a model for inducing transient insulin resistance in the mare: Preliminary implications regarding the estrous cycle, 2321
Effect of chronic clenbuterol administration and exercise training on immune function in horses, 3500
Short-duration exercise and confinement alters bone mineral content and shape in weanling horses, 2313
The effect of dietary fish oil supplementation on exercising horses, 2978
Equine Pregnancy
Effects of short-term early gestational exposure to endophyte-infected tall fescue diets on plasma 3,4-dihydroxyphenyl acetic acid and fetal development in mares, 2919
Ergot Alkaloid
Effects of short-term early gestational exposure to endophyte-infected tall fescue diets on plasma 3,4-dihydroxyphenyl acetic acid and fetal development in mares, 2919
Growth rate and physiology of steers grazing tall fescue inoculated with novel endophytes, 878
Productivity of cow–calf pairs grazing tall fescue pastures infected with either the wild-type endophyte or a nonergot alkaloid-producing endophyte strain, AR542, 3388
Escherichia coli
Effect of Maillard reaction products on ruminal and fecal acid-resistant *E. coli*, total coliform, VFA profiles, and pH in steers, 1170
Escherichia coli O157:H7
Effect of antibiotics in milk replacer on fecal shedding of *Escherichia coli* O157:H7 in calves, 2148
Estradiol-17β
Effect of flax supplementation and growth promotants on lipoprotein lipase and glycogenin messenger RNA concentrations in finishing cattle, 1868
Estradiol Cypionate
Effect of addition of a progesterone intravaginal insert to a timed insemination protocol using estradiol cypionate on ovulation rate, pregnancy rate, and late embryonic loss in lactating dairy cows, 3508
Estrogen Receptor Genotype
A dynamic model for ovulation rate reveals an effect of the estrogen receptor genotype on ovarian follicular development in the pig, 2329
Estrous Cycles
Ability of intravaginal progesterone inserts and melengestrol acetate to induce estrous cycles in postpartum beef cows, 695
Estrus
Effect of housing system and boar exposure on estrous expression in weaned sows, 3088
Effects of a novel carbohydrate and protein source on sow performance during lactation, 2392
Estrus Synchronization
A comparison of progestin-based protocols to synchronize estrus in postpartum beef cows, 1016
Follicular dynamics and steroid profiles in cows during and after treatment with progestin-based protocols for synchronization of estrus, 1022
Synchronization of estrus in postpartum beef cows and virgin heifers using combinations of melengestrol acetate, GnRH, and $PGF_{2\alpha}$, 867
Ewe
Effects of supplementing with calcium salts of palm oil fatty acids or hydrogenated tallow on ewe milk production and twin lamb growth, 2780
High linoleic acid safflower seed supplementation for gestating ewes: Effects on ewe performance, lamb survival, and brown fat stores, 3654
Relationship between litter birth weight and litter size in six breeds of sheep, 612
Ewe Productivity
Evaluation of Dorset, Finnsheep, Romanov, Texel, and Montadale breeds of sheep: II. Reproduction of F_1 ewes in fall mating seasons, 1280
Excretion
Evaluation of various inclusion rates of organic zinc either as polysaccharide or proteinate complex on the growth performance, plasma, and excretion of nursery pigs, 1359
Exercise
A simulation exercise to teach principles of bovine reproductive management, 1543
Effect of chronic clenbuterol administration and exercise training on immune function in horses, 3500
Effects of ribose supplementation on selected metabolic measurements and performance in maximally exercising Thoroughbreds, 619
High-intensity exercise of short duration alters bovine bone density and shape, 1612
Short-duration exercise and confinement alters bone mineral content and shape in weanling horses, 2313
The effect of dietary fish oil supplementation on exercising horses, 2978
Exertion
Effect of chronic clenbuterol administration and exercise training on immune function in horses, 3500
Expected Progeny Difference
Additive genetic relationships between heifer pregnancy and scrotal circumference in Nellore cattle, 2519
Extensive Production
A bioeconomic approach to derive economic values for pasture-based sheep genetic improvement programs, 1290
Extent of Degradation
Technical note: A proposed method to determine the extent of degradation of a feed in the rumen from the degradation profile obtained with the in vitro gas production technique using feces as the inoculum, 733

F

Fasting
Effects of feed restriction on reproductive and metabolic hormones in ewes, 2548
Fat
Computer image analysis for measuring lean and fatty areas in cross-sectioned dry-cured hams, 808
Effects of supplementing with calcium salts of palm oil fatty acids or hydrogenated tallow on ewe milk production and twin lamb growth, 2780
Fat digestibility in *Equus caballus* follows increasing first-order kinetics, 1773
Growth and compositional changes of fetal tissues in pigs, 2534
Mapping of quantitative trait loci for growth and carcass traits in commercial sheep populations, 2234
The relationship of average backfat thickness of feedlot steers to performance and relative efficiency of fat and protein retention, 3366
Value of sunflower seed in finishing diets of feedlot cattle, 2679
Fat Cells
Recruitment and differentiation of intramuscular preadipocytes in stromal-vascular cell cultures derived from neonatal pig semitendinosus muscles, 429
Fat Quality
Effects of rancidity and free fatty acids in choice white grease on growth performance and nutrient digestibility in weanling pigs, 2937
Fat Soybean
Feeding encapsulated ground full-fat soybeans to increase polyunsaturated fat concentrations and effects on flavor volatiles in fresh lamb, 2734
Fattening Performance
Supplemental vitamin D_3 concentration and biological type of beef steers: I. Feedlot performance and carcass traits, 2050

Fatty Acid
Effects of barley variety fed to steers on carcass characteristics and color of meat, 2087
Free-range rearing of pigs during the winter: Adaptations in muscle fiber characteristics and effects on adipose tissue composition and meat quality traits, 1206
Influence of supplemental cracked high-linoleate or high-oleate safflower seeds on site and extent of digestion in beef cattle, 3577
In vitro effects of individual fatty acids on protozoal numbers and on fermentation products in ruminal fluid from cattle fed a high-concentrate, barley-based diet, 2693
Protein and lipid sources affect cholesterol concentrations of juvenile Pacific white shrimp, *Litopenaeus vannamei* (Boone), 1136
Fatty Acid Absorption
Soybean oil supplementation of a high-concentrate diet does not affect site and extent of organic matter, starch, neutral detergent fiber, or nitrogen digestion, but influences both ruminal metabolism and intestinal flow of fatty acids in limit-fed lambs, 2985
Fatty Acid Composition
Effects of supplemental rumen-protected conjugated linoleic acid or corn oil on fatty acid composition of adipose tissues in beef cattle, 1419
Fatty Acid Synthase
The effect of dietary docosahexaenoic acid on the expression of porcine lipid metabolism-related genes, 683
F_2 Piglets
Viability of Iberian × Meishan F_2 newborn pigs. II. Survival analysis up to weaning, 1925
Feather Meal
Effect of feather meal on barrow performance, 2588
Fecal Copper
Effect of dietary copper source (cupric citrate and cupric sulfate) and concentration on growth performance and fecal copper excretion in weanling pigs, 1234
Fecal Egg Count
Genetic parameters for indicators of host resistance to parasites from weaning to hogget age in Merino sheep, 2852
Genotype × environment interactions and genetic parameters for fecal egg count and production traits of Merino sheep, 2840
Fecal Inoculum
Technical note: A proposed method to determine the extent of degradation of a feed in the rumen from the degradation profile obtained with the in vitro gas production technique using feces as the inoculum, 733
Feces
Excretion of major odor-causing and acidifying compounds in response to dietary supplementation of chicory inulin in growing pigs, 1678
Feed Additives
Methane emissions from beef cattle: Effects of monensin, sunflower oil, enzymes, yeast, and fumaric acid, 3346
Feed Contamination
An unaddressed issue of agricultural terrorism: A case study on feed security, 3394
Feed Conversion Ratio
Elliptical selection experiment for the estimation of genetic parameters of the growth rate and feed conversion ratio in rabbits, 654
Feed Grains
Glycemic index of cracked corn, oat groats and rolled barley in horses, 2623
Feeding
Changes in plasma ghrelin and growth hormone concentrations in mature Holstein cows and three-month-old calves, 1329
Performance and individual feed intake characteristics of group-housed sows fed a nonstarch polysaccharides diet ad libitum during gestation over three parities, 1246
Feeding Length
Environmental impacts of the Japanese beef-fattening system with different feeding lengths as evaluated by a life-cycle assessment method, 2115
Feeding Preferences
Specific dietary selection for tryptophan by the piglet, 1115
Feed Intake
Conceptus and maternal responses to increased feed intake during early gestation in pigs, 3154
Effect of feather meal on barrow performance, 2588
Effect of feed intake on endogenous losses and amino acid and energy digestibility by growing pigs, 3518
Effect of management strategies on reducing heat stress of feedlot cattle: Feed and water intake, 3077
Effects of a novel carbohydrate and protein source on sow performance during lactation, 2392
Effects of exogenous ghrelin on feed intake, weight gain, behavior, and endocrine responses in weanling pigs, 1957
Intermittent suckling: Effects on piglet and sow performance before and after weaning, 405
Performance of mouse lines divergently selected for heat loss when exposed to different environmental temperatures. II. Feed intake, growth, fatness, and body organs, 2884
Selection for growth in brown trout increases feed intake capacity without affecting maintenance and growth requirements, 2865
Feedlot
Effect of management strategies on reducing heat stress of feedlot cattle: Feed and water intake, 3077
Effect of organic matter addition to the pen surface and pen cleaning frequency on nitrogen mass balance in open feedlots, 2153
Effects of crude protein concentration and degradability on performance, carcass characteristics, and serum urea nitrogen concentrations in finishing beef steers, 2705
Effects of different grazing and feeding periods on performance and carcass traits of beef steers, 292
Effects of growth-promoting agents and season on yearling feedlot heifer performance, 2481
Value of sunflower seed in finishing diets of feedlot cattle, 2679
Feedlot Performance
Effect of live weight gain of steers during winter grazing: I. Feedlot performance, carcass characteristics, and body composition of beef steers, 262
Feed Restriction
Site and extent of digestion and amino acid flow to the small intestine in beef cattle consuming limited amounts of forage, 1146
Feed Security
An unaddressed issue of agricultural terrorism: A case study on feed security, 3394
Female Fertility
Genetic evaluation of calving to first insemination using natural and artificial insemination mating data, 362
Fermentation
Effect of field pea level on intake, digestion, microbial efficiency, ruminal fermentation, and in situ disappearance in beef steers fed forage-based diets, 2185
Effect of field pea level on intake, digestion, microbial efficiency, ruminal fermentation, and in situ disappearance in beef steers fed growing diets, 2123
Effects of cereal grain supplementation on apparent digestibility of nutrients and concentrations of fermentation end-products in the feces and serum of horses consuming alfalfa cubes, 1986
Fermented Silage
Influence of concentrate composition and forage type on retail packaged beef quality, 2384
Fertility
Comparison of methods for handling censored records in beef fertility data: Field data, 357
Comparison of methods for handling censored records in beef fertility data: Simulation study, 351
Pregnancy rates of mares inseminated with semen cooled for 18 hours then frozen, 690
The National Pork Producers Council Maternal Line National Genetic Evaluation Program: A comparison of six maternal genetic lines for female productivity measures over four parities, 41
Fertilization
The relationship of porcine sperm zone-binding ability to fertility, 452
Fescue
Effects of supplementing with calcium salts of palm oil fatty acids or hydrogenated tallow on ewe milk production and twin lamb growth, 2780
Fescue Toxicosis
Growth rate and physiology of steers grazing tall fescue inoculated with novel endophytes, 878
Festuca arundinacea
Effects of endophyte-infected tall fescue on indicators of thermal status and growth in Hereford and Senepol steers, 634

Productivity of cow–calf pairs grazing tall fescue pastures infected with either the wild-type endophyte or a nonergot alkaloid-producing endophyte strain, AR542, 3388
Fetal Development
Plasma hormones and metabolites in Piedmontese cows during late pregnancy: Relationships with calf birth weight, 438
The effect of divergent selection for uterine capacity on fetal and placental development at term in rabbits: maternal and embryonic genetic effects, 1046
Fetus
Effect of nutrient restriction on calpain and calpastatin content of skeletal muscle from cows and fetuses, 2541
Growth and compositional changes of fetal tissues in pigs, 2534
Fiber
Effects of additional starch or fat in late-gestating high nonstarch polysaccharide diets on litter performance and glucose tolerance in sows, 2964
Performance and individual feed intake characteristics of group-housed sows fed a nonstarch polysaccharides diet ad libitum during gestation over three parities, 1246
Fiber Type
Improving pork quality by feeding supranutritional concentrations of vitamin D_3, 218
Field Pea
Assessment of the feeding value of South Dakota-grown field peas (*Pisum sativum* L.) for growing pigs, 2568
Effect of field pea-based creep feed on intake, digestibility, ruminal fermentation, and performance by nursing calves grazing native range in western North Dakota, 3589
Effect of field pea level on intake, digestion, microbial efficiency, ruminal fermentation, and in situ disappearance in beef steers fed forage-based diets, 2185
Effect of field pea replacement level on intake and digestion in beef steers fed by-product-based medium-concentrate diets, 1855
Finishing Cattle
Effects of concentration and composition of wet corn gluten feed in steam-flaked corn-based finishing diets, 2718
Effects of dry, wet, and rehydrated corn bran and corn processing method in beef finishing diets, 3543
Finishing Pigs
Isoleucine requirement for late-finishing (87 to 100 kg) pigs, 1334
Fish Meal
Source and level of supplemental protein for growing lambs, 3237
The effects of poultry meal source and ash level on nursery pig performance, 2750
Fish Oil
The effect of dietary fish oil supplementation on exercising horses, 2978
Fixed-Time Artificial Insemination
Methods to reduce or eliminate detection of estrus in a melengestrol acetate-$PGF_{2\alpha}$ protocol for synchronization of estrus in beef heifers, 3071
Flavor Volatiles
Feeding encapsulated ground full-fat soybeans to increase polyunsaturated fat concentrations and effects on flavor volatiles in fresh lamb, 2734
Flaxseed
Effect of flax supplementation and growth promotants on lipoprotein lipase and glycogenin messenger RNA concentrations in finishing cattle, 1868
Fleshiness
Genetic relationships between calving performance and beef production traits in Piemontese cattle, 3440
Flow Cytometry
Characteristics of calves produced with sperm sexed by flow cytometry/cell sorting, 1029
Follicle
Inhibition of intrafollicular PGE_2 synthesis and ovulation following ultrasound-mediated intrafollicular injection of the selective cyclooxygenase-2 inhibitor NS-398 in cattle, 1656
Follicle Growth
A dynamic model for ovulation rate reveals an effect of the estrogen receptor genotype on ovarian follicular development in the pig, 2329
Follicle-Stimulating Hormone
Effect of increasing levels of undegradable intake protein on metabolic and endocrine factors in estrous cycling beef heifers, 283
Lack of an association between plasma follicle-stimulating hormone concentrations and ovarian weight in prepubertal gilts, 472
Forage
Daily and alternate day supplementation of urea or biuret to ruminants consuming low-quality forage: I. Effects on cow performance and the efficiency of nitrogen use in wethers, 1508
Daily and alternate-day supplementation of urea or biuret to ruminants consuming low-quality forage: II. Effects on site of digestion and microbial efficiency in steers, 1518
Daily and alternate-day supplementation of urea or biuret to ruminants consuming low-quality forage: III. Effects on ruminal fermentation characteristics in steers, 1528
Effect of fiber-based creep feed on intake, digestion, ruminal fermentation, and microbial efficiency in nursing calves, 3560
Effect of field pea-based creep feed on intake, digestibility, ruminal fermentation, and performance by nursing calves grazing native range in western North Dakota, 3589
Effect of field pea level on intake, digestion, microbial efficiency, ruminal fermentation, and in situ disappearance in beef steers fed forage-based diets, 2185
Effect of forage quality on digestion and performance responses of cattle to supplementation with cooked molasses blocks, 487
Effect of supplementation frequency and supplemental urea level on dormant, tallgrass-prairie hay intake and digestion by steers and prepartum performance of beef cows grazing dormant, tallgrass-prairie, 884
Influence of mass of ruminal contents on voluntary intake and digesta passage in steers fed a forage and a concentrate diet, 1806
Ruminal and host adaptations to changes in frequency of protein supplementation, 895
Site and extent of digestion and amino acid flow to the small intestine in beef cattle consuming limited amounts of forage, 1146
Soybean hulls as an alternative feed for horses, 1663
The influence of high-nitrogen forages on the voluntary feed intake of sheep, 1536
Forage Intake
Interactions between supplement energy source and tall fescue hay maturity on forage utilization by beef steers, 307
Nonstructural carbohydrate supplementation of yearling heifers and range beef cows, 2724
Foregut
Effect of diet composition and feeding pattern on the prececal digestibility of starches from diverse botanical origins measured with the mobile nylon bag technique in horses, 3625
Formaldehyde
Evaluation of methods to reduce bacteria concentrations in spray-dried animal plasma and its effects on nursery pig performance, 250
Free Fatty Acids
Development of a model for inducing transient insulin resistance in the mare: Preliminary implications regarding the estrous cycle, 2321
Effects of rancidity and free fatty acids in choice white grease on growth performance and nutrient digestibility in weanling pigs, 2937
Free-Range Husbandry
Free-range rearing of pigs during the winter: Adaptations in muscle fiber characteristics and effects on adipose tissue composition and meat quality traits, 1206
Freezing
Pregnancy rates of mares inseminated with semen cooled for 18 hours then frozen, 690
Frequency
Daily and alternate day supplementation of urea or biuret to ruminants consuming low-quality forage: I. Effects on cow performance and the efficiency of nitrogen use in wethers, 1508
Daily and alternate-day supplementation of urea or biuret to ruminants consuming low-quality forage: II. Effects on site of digestion and microbial efficiency in steers, 1518
Daily and alternate-day supplementation of urea or biuret to ruminants consuming low-quality forage: III. Effects on ruminal fermentation characteristics in steers, 1528
Effect of supplementation frequency and supplemental urea level on dormant, tallgrass-prairie hay intake and digestion by steers and prepartum performance of beef cows grazing dormant, tallgrass-prairie, 884

Ruminal and host adaptations to changes in frequency of protein supplementation, 895
Friesian Horse
Effect of inbreeding on the incidence of retained placenta in Friesian horses, 982
Fungus
The toxicosis of *Embellisia* fungi from locoweed (*Oxytropis lambertii*) is similar to locoweed toxicosis in rats, 2169
Fusarium
Effects of feeding blends of grains naturally contaminated with *Fusarium* mycotoxins on brain regional neurochemistry of starter pigs and broiler chickens, 2131

G

Gamagrass
Fermentation of eastern gamagrass (*Tripsacum dactyloides* [L.] L.) by mixed cultures of ruminal microorganisms with or without supplemental corn, 170
Gametic Imprinting
Characterization of quantitative trait loci for growth and meat quality in a cross between commercial breeds of swine, 2213
Gas Production
Technical note: A proposed method to determine the extent of degradation of a feed in the rumen from the degradation profile obtained with the in vitro gas production technique using feces as the inoculum, 733
Gastric Ulcers
Physiological responses in swine treated with water containing sodium bicarbonate as a prophylactic for gastric ulcers, 2757
Gastrointestinal Parasites
Genetic parameters for indicators of host resistance to parasites from weaning to hogget age in Merino sheep, 2852
Genotype × environment interactions and genetic parameters for fecal egg count and production traits of Merino sheep, 2840
Gastrointestinal Tract
The effect of dietary restriction, pregnancy, and fetal type in different ewe types on fetal weight, maternal body weight, and visceral organ mass in ewes, 1826
Gender
Effect of early gestation feeding, birth weight, and gender of progeny on muscle fiber characteristics of pigs at slaughter, 826
The effect of space allocation on barrow and gilt performance, 2460
The effects of gender and slaughter weight on the growth performance, carcass traits, and meat quality characteristics of heavy pigs, 526
Gene-Assisted Selection
Maximizing genetic gain over multiple generations with quantitative trait locus selection and control of inbreeding, 1305
Gene Expression
Adipogenesis: Usefulness of in vitro and in vivo experimental models, 905
A mixed-model approach for the analysis of cDNA microarray gene expression data from extreme-performing pigs after infection with *Actinobacillus pleuropneumoniae*, 1261
Evaluation of gene expression in pigs selected for enhanced reproduction using differential display PCR: II. Anterior pituitary, 32
Joint analysis of multiple cDNA microarray studies via multivariate mixed models applied to genetic improvement of beef cattle, 3430
Role of fatty acids in adipocyte growth and development, 916
Genetic
Genetic response to selection for weaning weight or yearling weight or yearling weight and muscle score in Hereford cattle: Efficiency of gain, growth, and carcass characteristics, 668
Genetic Analysis
Use of structured antedependence models for the genetic analysis of growth curves, 3465
Genetic Conservation
Genetic diversity in and conservation strategy considerations for Navajo Churro sheep, 2900
Genetic Correlation
Additive genetic relationships between heifer pregnancy and scrotal circumference in Nellore cattle, 2519
Effects of sire misidentification on estimates of genetic parameters for birth and weaning weights in Hereford cattle, 2307
Genetic associations of prolificacy with performance, carcass, meat quality, and leg conformation traits in the Finnish Landrace and Large White pig populations, 2301
Genetic relationships between calving performance and beef production traits in Piemontese cattle, 3440
Genetic relationships between sex-specific traits in beef cattle: Mature weight, weight adjusted for body condition score, height and body condition score of cows, and carcass traits of their steer relatives, 647
Genetics of length of productive life and lifetime prolificacy in the Finnish Landrace and Large White pig populations, 3111
Genetics of osteochondral disease and its relationship with meat quality and quantity, growth, and feed conversion traits in pigs, 3118
Prevalence of spondylosis deformans and estimates of genetic parameters for the degree of osteophytes development in Italian Boxer dogs, 85
Genetic Diversity
Genetic diversity analyses of 10 indigenous Chinese pig populations based on 20 microsatellites, 368
Population structure of a colony of dog guides, 2906
Genetic Evaluation
A method of computing restricted best linear unbiased prediction of breeding values for some animals in a population, 2253
Comparing alternative definitions of the contemporary group effect in Avileña Negra Ibérica beef cattle using classical and Bayesian criteria, 3447
Constructing covariance functions for random regression models for growth in Gelbvieh beef cattle, 1564
Evaluation of Simmental carcass EPD estimated using live and carcass data, 661
Hierarchical Bayes multiple-breed inference with an application to genetic evaluation of a Nelore-Hereford population, 1589
Threshold-linear analysis of measures of fertility in artificial insemination data and days to calving in beef cattle, 987
Genetic Gain
Maximizing genetic gain over multiple generations with quantitative trait locus selection and control of inbreeding, 1305
Genetic Improvement
A bioeconomic approach to derive economic values for pasture-based sheep genetic improvement programs, 1290
Genetic Markers
Association of markers in the bovine *CAPN1* gene with meat tenderness in large crossbred populations that sample influential industry sires, 3474
Genetic Parameter
Breed differences and genetic parameters of myoglobin concentration in porcine longissimus muscle, 2264
Covariance functions and random regression models for cow weight in beef cattle, 54
Elliptical selection experiment for the estimation of genetic parameters of the growth rate and feed conversion ratio in rabbits, 654
Genetic analysis of litter size, parturition length, and birth assistance requirements in primiparous sows using a joint linear-threshold animal model, 2528
Genetic and nongenetic influences on vigor at birth and preweaning mortality of purebred and high percentage Brahman calves, 1581
Genetic correlations between reproduction and production traits in swine, 3458
Genetic correlation between serum insulin-like growth factor-1 concentration and performance and meat quality traits in Duroc pigs, 994
Genetic parameters for calving difficulty, stillbirth, and birth weight for Hereford and Charolais at first and later parities, 375
Genetic parameters for indicators of host resistance to parasites from weaning to hogget age in Merino sheep, 2852
Genetic relationships between calving and carcass traits for Charolais and Hereford cattle in Sweden, 2269
Genotype × environment interactions and genetic parameters for fecal egg count and production traits of Merino sheep, 2840
Inheritance of fecal egg count and packed cell volume and their relationship with production traits in sheep infected with *Haemonchus contortus*, 1602
Genetics
Identifying critical parameters in the dynamics and control of microparasite infection using a stochastic epidemiological model, 384

The effect of selection for growth rate and slaughter age on carcass composition and meat quality traits in rabbits, 3138
Genetic Variation
Modeling the effects of stressors on the performance of populations of pigs, 2442
The National Pork Producers Council Maternal Line National Genetic Evaluation Program: A comparison of six maternal genetic lines for female productivity measures over four parities, 41
Genome
Mapping of quantitative trait loci for growth and carcass traits in commercial sheep populations, 2234
Genotype × Environment Interaction
Genotype × environment interactions and genetic parameters for fecal egg count and production traits of Merino sheep, 2840
Performance of mouse lines divergently selected for heat loss when exposed to different environmental temperatures. I. Reproductive performance, pup survival, and metabolic hormones, 2876
Gestation
Growth and compositional changes of fetal tissues in pigs, 2534
Influence of Carnichrome on the energy balance of gestating sows, 2013
Performance and individual feed intake characteristics of group-housed sows fed a nonstarch polysaccharides diet ad libitum during gestation over three parities, 1246
Ghrelin
Changes in plasma ghrelin and growth hormone concentrations in mature Holstein cows and three-month-old calves, 1329
Effects of exogenous ghrelin on feed intake, weight gain, behavior, and endocrine responses in weanling pigs, 1957
Glucocorticoids
Evaluation of exogenous glucocorticoid injection on preweaning growth performance of neonatal pigs under commercial conditions, 1241
Glucose
Effect of nonwaxy and waxy sorghum on growth, carcass traits, and glucose and insulin kinetics of growing-finishing barrows and gilts, 1699
Glycemic index of cracked corn, oat groats and rolled barley in horses, 2623
Influence of abomasal carbohydrates on small intestinal sodium-dependent glucose cotransporter activity and abundance in steers, 3015
Inhibition of endogenous nitric oxide production influences ovine hindlimb metabolism independently of insulin concentrations, 2558
Glucose Tolerance
Effects of additional starch or fat in late-gestating high nonstarch polysaccharide diets on litter performance and glucose tolerance in sows, 2964
Glucosinolates
Challenges and opportunities in the analysis of raffinose oligosaccharides, pentosans, phytate, and glucosinolates, 319
Glutathione Peroxidase
Effect of Se on selenoprotein activity and thyroid hormone metabolism in beef and dairy cows and calves, 2995
Glycogen
Preslaughter stress and muscle energy largely determine pork quality at two commercial processing plants, 1401
Glycogenin
Effect of flax supplementation and growth promotants on lipoprotein lipase and glycogenin messenger RNA concentrations in finishing cattle, 1868
Goats
Effect of changing female stimulus on intensive semen collection in young Murciano-Granadina male goats, 1641
Effect of simulated ambient particulate matter exposure on performance, rectal temperature, and leukocytosis of young Spanish goats with or without tilmicosin phosphate, 1219
Flow paths of plant tissue residues and digesta through gastrointestinal segments in Spanish goats and methodological considerations, 508
Ruminal fermentation and degradation patterns, protozoa population and urinary purine derivatives excretion in goats and wethers fed diets based on olive leaves, 3006
Ruminal fermentation and degradation patterns, protozoa population, and urinary purine derivatives excretion in goats and wethers fed diets based on two-stage olive cake: Effect of PEG supply, 2023
Gonadotropin-Releasing Hormone
A comparison of progestin-based protocols to synchronize estrus in postpartum beef cows, 1016
Follicular dynamics and steroid profiles in cows during and after treatment with progestin-based protocols for synchronization of estrus, 1022
Methods to reduce or eliminate detection of estrus in a melengestrol acetate-$PGF_{2\alpha}$ protocol for synchronization of estrus in beef heifers, 3071
Synchronization of estrus in postpartum beef cows and virgin heifers using combinations of melengestrol acetate, GnRH, and $PGF_{2\alpha}$, 867
Gonadotropins
Ovarian follicular development in cattle selected for twin ovulations and births, 459
Grade
The accuracy and repeatability of untrained laboratory consumer panelists in detecting differences in beef longissimus tenderness, 557
Grass Silage
Prediction of nutritive values in grass silages: II. Degradability of nitrogen and dry matter using digestibility, chemical composition, and fermentation data, 1380
Prediction of nutritive values in grass silages: I. Nutrient digestibility and energy concentrations using nutrient compositions and fermentation characteristics, 1367
Grazing
Effect of live weight gain of steers during winter grazing: III. Blood metabolites and hormones during feedlot finishing, 2059
Productivity and hay requirements of beef cattle in a Midwestern year-round grazing system, 2503
Productivity of cow–calf pairs grazing tall fescue pastures infected with either the wild-type endophyte or a nonergot alkaloid-producing endophyte strain, AR542, 3388
Greenhouse Gases
Methane emissions from beef cattle: Effects of monensin, sunflower oil, enzymes, yeast, and fumaric acid, 3346
Growing
Effect of field pea level on intake, digestion, microbial efficiency, ruminal fermentation, and in situ disappearance in beef steers fed growing diets, 2123
Growing-Finishing Pigs
Dried skim milk as a replacement for soybean meal in growing-finishing diets: Effects on growth performance, apparent total tract nitrogen digestibility, urinary and fecal nitrogen excretion, and carcass traits in pigs, 3338
Growing Pig
Effects of energy intake and body weight on physical and chemical body composition in growing entire male pigs, 109
Growing Steers
Growing and finishing performance of steers when fed recycled poultry bedding during the growing period, 3038
Growth
Association of myostatin on early calf mortality, growth, and carcass composition traits in crossbred cattle, 2913
Comparisons of Angus, Charolais, Galloway, Hereford, Longhorn, Nellore, Piedmontese, Salers, and Shorthorn breeds for weight, weight adjusted for condition score, height, and condition score of cows, 74
Copper proteinate in weanling pig diets for enhancing growth performance and reducing fecal copper excretion comapred with copper sulfate, 1062
Covariance functions and random regression models for cow weight in beef cattle, 54
Dried skim milk as a replacement for soybean meal in growing-finishing diets: Effects on growth performance, apparent total tract nitrogen digestibility, urinary and fecal nitrogen excretion, and carcass traits in pigs, 3338
Effect of a ractopamine feeding program on growth performance and carcass composition in finishing pigs, 2474
Effect of dietary copper source (cupric citrate and cupric sulfate) and concentration on growth performance and fecal copper excretion in weanling pigs, 1234
Effect of dietary restriction, pregnancy, and fetal type on intestinal cellularity and vascularity in Columbia and Romanov ewes, 3024
Effect of nonwaxy and waxy sorghum on growth, carcass traits, and glucose and insulin kinetics of growing-finishing barrows and gilts, 1699

Effect of phosphorylated mannans and pharmacological additions of zinc oxide on growth and immunocompetence of weanling pigs, 581
Effect of soybean variety and processing on growth performance of young chicks and pigs, 1108
Effect of supplemental manganese on performance and carcass characteristics of growing-finishing swine, 3267
Effects of ammonia load on methionine utilization by growing steers, 3537
Effects of birth weight and postnatal nutrition on neonatal sheep: IV. Organ growth, 422
Effects of dietary iron supplementation on growth performance, hematological status, and whole-body mineral concentrations of nursery pigs, 3189
Effects of supplemental fat on growth performance and quality of beef from steers fed barley-potato product finishing diets: I. Feedlot performance, carcass traits, appearance, water binding, retail storage, and palatability attributes, 3600
Evaluation of Dorset, Finnsheep, Romanov, Texel, and Montadale breeds of sheep: IV. Survival, growth, and carcass traits of F_1 lambs, 3144
Evaluation of exogenous glucocorticoid injection on preweaning growth performance of neonatal pigs under commercial conditions, 1241
Evaluation of methods to reduce bacteria concentrations in spray-dried animal plasma and its effects on nursery pig performance, 250
Genetic relationships between calving performance and beef production traits in Piemontese cattle, 3440
Genetic relationships between sex-specific traits in beef cattle: Mature weight, weight adjusted for body condition score, height and body condition score of cows, and carcass traits of their steer relatives, 647
Genetics of osteochondral disease and its relationship with meat quality and quantity, growth, and feed conversion traits in pigs, 3118
Growth and carcass characteristics of lambs sired by Dorper and Dorset rams, 1323
Growth and compositional changes of fetal tissues in pigs, 2534
Growth performance of nursery pigs fed diets containing increasing levels of corn distiller's dried grains with solubles originating from a modern Midwestern ethanol plant, 122
Growth rate consists of baseline and systematic deviation components in Thoroughbreds, 1007
Identification and fine mapping of quantitative trait loci for growth traits on bovine chromosomes 2, 6, 14, 19, 21, and 23 within one commercial line of *Bos taurus*, 3405
Intermittent suckling: Effects on piglet and sow performance before and after weaning, 405
Mapping of quantitative trait loci for growth and carcass traits in commercial sheep populations, 2234
Modeling the effects of stressors on the performance of populations of pigs, 2442
National Pork Producers Council Maternal Line Genetic Evaluation: A comparison of growth and carcass traits in terminal progeny, 3482
Performance of growing-finishing pigs fed diets containing Roundup Ready corn (event nk603), a nontransgenic genetically similar corn, or conventional corn lines, 571
Performance of mouse lines divergently selected for heat loss when exposed to different environmental temperatures. II. Feed intake, growth, fatness, and body organs, 2884
Responses to 19 generations of litter size selection in the NE Index line. II. Growth and carcass responses estimated in pure line and crossbred litters, 1895
Short-duration exercise and confinement alters bone mineral content and shape in weanling horses, 2313
Teat scores in first-parity Gelbvieh cows: Relationship with suspensory score and calf growth traits, 2277
The effect of dietary ractopamine concentration and duration of feeding on growth performance, carcass characteristics, and meat quality of finishing pigs, 3245
The effects of poultry meal source and ash level on nursery pig performance, 2750
Growth Curves
Use of structured antedependence models for the genetic analysis of growth curves, 3465
Growth Hormone
Adipogenesis: Usefulness of in vitro and in vivo experimental models, 905
Changes in plasma ghrelin and growth hormone concentrations in mature Holstein cows and three-month-old calves, 1329
Growth Performance
Increasing weaning age improves pig performance in a multisite production system, 1499
Phosphorus requirements of growing-finishing pigs reared in a commercial environment, 2945
The efficacy of an *Escherichia coli*-derived phytase preparation, 2657
Vitamin E supplementation does not mitigate the acute morbidity effects of porcine reproductive and respiratory syndrome virus in nursery pigs, 1942
Growth Rate
Effects of endophyte-infected tall fescue on indicators of thermal status and growth in Hereford and Senepol steers, 634
Elliptical selection experiment for the estimation of genetic parameters of the growth rate and feed conversion ratio in rabbits, 654
Selection for growth in brown trout increases feed intake capacity without affecting maintenance and growth requirements, 2865
The effect of selection for growth rate and slaughter age on carcass composition and meat quality traits in rabbits, 3138
Growth Traits
Assessment of positional candidate genes *myf*5 and *igf*1 for growth on bovine chromosome 5 in commercial lines of*Bos taurus*, 1
Associations of polymorphisms in the *Pit-1* gene with growth and carcass traits in Angus beef cattle, 2229
Guide Dogs
Population structure of a colony of dog guides, 2906
Gutierrezia sarothrae
Conditioning cattle to graze broom snakeweed (*Gutierrezia sarothrae*), 3100

H

Haemonchus contortus
Inheritance of fecal egg count and packed cell volume and their relationship with production traits in sheep infected with *Haemonchus contortus*, 1602
Half-Sib Family
Quantitative trait loci analysis for growth and carcass traits in a half-sib family of purebred Japanese Black (Wagyu) cattle, 3415
Ham
Computer image analysis for measuring lean and fatty areas in cross-sectioned dry-cured hams, 808
Handling
Effects of handling intensity and live weight on blood acid-base status in finishing pigs, 2405
Haplotype Analysis
Identification and fine mapping of quantitative trait loci for backfat on bovine chromosomes 2, 5, 6, 19, 21, and 23 in a commercial line of *Bos taurus*, 967
Haplotype
New alleles in calpastatin gene are associated with meat quality traits in pigs, 2829
Haplotype Sharing Analysis
Identification and fine mapping of quantitative trait loci for growth traits on bovine chromosomes 2, 6, 14, 19, 21, and 23 within one commercial line of *Bos taurus*, 3405
Haptoglobin
Chronic lung inflammation affects plasma amino acid concentrations in pigs, 1091
Health
Inheritance of fecal egg count and packed cell volume and their relationship with production traits in sheep infected with *Haemonchus contortus*, 1602
Performance of hair sheep composite breeds: Resistance of lambs to *Haemonchus contortus*, 595
Heart Rate
Effect of supplemental tryptophan, vitamin E, and a herbal product on responses by pigs to vibration, 2410
Heat Adaptation
Effects of endophyte-infected tall fescue on indicators of thermal status and growth in Hereford and Senepol steers, 634

Heat Exposure
Effect of heat exposure on uncoupling protein-3 mRNA abundance in porcine skeletal muscle, 3493
Heat Production
Influence of Carnichrome on the energy balance of gestating sows, 2013
Heat Stress
Effect of management strategies on reducing heat stress of feedlot cattle: Feed and water intake, 3077
Effects of endophyte-infected tall fescue on indicators of thermal status and growth in Hereford and Senepol steers, 634
Heifer
Chronic administration of recombinant ovine leptin in growing beef heifers: Effects on secretion of LH, metabolic hormones, and timing of puberty, 2930
Effects of growth-promoting agents and season on yearling feedlot heifer performance, 2481
Methods to reduce or eliminate detection of estrus in a melengestrol acetate-$PGF_{2\alpha}$ protocol for synchronization of estrus in beef heifers, 3071
Heifer Development
Comparison of target breeding weight and breeding date for replacement beef heifers and effects on subsequent reproduction and calf performance, 3094
Heifer Fertility
Threshold-linear analysis of measures of fertility in artificial insemination data and days to calving in beef cattle, 987
Herbs
Effect of supplemental tryptophan, vitamin E, and a herbal product on responses by pigs to vibration, 2410
Heritability
Additive genetic relationships between heifer pregnancy and scrotal circumference in Nellore cattle, 2519
Competing Risks Analysis of Lamb Mortality in a Terminal Sire Composite, 2892
Effect of inbreeding on the incidence of retained placenta in Friesian horses, 982
Effects of sire misidentification on estimates of genetic parameters for birth and weaning weights in Hereford cattle, 2307
Estimation of (co)variance components for reproductive traits in Angus beef cattle divergently selected for blood serum IGF-I concentration, 2285
Genetic correlations between reproduction and production traits in swine, 3458
Genetic relationships between sex-specific traits in beef cattle: Mature weight, weight adjusted for body condition score, height and body condition score of cows, and carcass traits of their steer relatives, 647
Genetic response to selection for weaning weight or yearling weight or yearling weight and muscle score in Hereford cattle: Efficiency of gain, growth, and carcass characteristics, 668
Genetics of length of productive life and lifetime prolificacy in the Finnish Landrace and Large White pig populations, 3111
Partitioning variances of growth in ultrasound longissimus muscle area measures in Angus bulls and heifers, 1272
Prevalence of spondylosis deformans and estimates of genetic parameters for the degree of osteophytes development in Italian Boxer dogs, 85
High-Fiber Diet
Metabolic and microbial responses in western crossbred and Meishan growing pigs fed a high-fiber diet, 1740
Histidine
Histidine utilization by growing steers is not negatively affected by increased supply of either ammonia or amino acids, 759
Hormones
Effect of live weight gain of steers during winter grazing: III. Blood metabolites and hormones during feedlot finishing, 2059
Insulin and dexamethasone regulate stearoyl-CoA desaturase mRNA levels and fatty acid synthesis in ovine adipose tissue explants, 231
Pancreatic exocrine secretion and plasma concentration of some gastrointestinal hormones in response to abomasal infusion of starch hydrolyzate and/or casein, 1781
Plasma hormones and metabolites in Piedmontese cows during late pregnancy: Relationships with calf birth weight, 438
Horse
Effect of diet composition and feeding pattern on the prececal digestibility of starches from diverse botanical origins measured with the mobile nylon bag technique in horses, 3625
Effects of cereal grain supplementation on apparent digestibility of nutrients and concentrations of fermentation end-products in the feces and serum of horses consuming alfalfa cubes, 1986
Effects of ribose supplementation on selected metabolic measurements and performance in maximally exercising Thoroughbreds, 619
Fat digestibility in *Equus caballus* follows increasing first-order kinetics, 1773
Glycemic index of cracked corn, oat groats and rolled barley in horses, 2623
Soybean hulls as an alternative feed for horses, 1663
The apparent digestibility of phytate phosphorus and the influence of supplemental phytase in horses, 1756
The effect of dietary fish oil supplementation on exercising horses, 2978
Housing
Backtest type and housing condition of pigs influence energy metabolism, 1227
Effect of housing system and boar exposure on estrous expression in weaned sows, 3088
Hydrocortisone
Excess cortisol interferes with a principal mechanism of resistance to dehydration in *Bos indicus* steers, 1037
Hypertrophy
Effects of a quantitative trait locus for muscle hypertrophy from Belgian Texel sheep on carcass conformation and muscularity, 3128
25-Hydroxyvitamin D_3
Feeding 25-hydroxyvitamin D_3 to improve beef tenderness, 1410
Hypothalamic-Pituitary-Adrenal Axis
Technical Note: Effect of corticotropin-releasing hormone on adrenocorticotropic hormone and cortisol in steers, 1952
Hypothyroidism
Effect of hypothyroidism on the blood lipid response to higher dietary fat intake in mares, 2640

I

Ileal Digestibility
Ileal amino acid digestibility and performance of growing pigs fed wheat-based diets supplemented with xylanase, 1997
Ileum
Relative ileal amino acid flows and microbial counts in intestinal effluents of Goettingen Minipigs and Saddleback pigs are not different, 1976
Image Analysis
Light microscopy and image analysis of thin filament lengths utilizing dual probes on beef, chicken, and rabbit myofibrils, 1445
Immune Response
Effects of copper and zinc source on performance and humoral immune response of newly received, lightweight beef heifers, 2467
Immune System
Leptin alters antibody isotype in the pig in vivo, but does not regulate cytokine expression or stimulate STAT3 signaling in peripheral blood monocytes in vitro, 1630
Immunofluorescence
Light microscopy and image analysis of thin filament lengths utilizing dual probes on beef, chicken, and rabbit myofibrils, 1445
Immunoglobulin A
Spray-dried plasma improves growth performance and reduces inflammatory status of weaned pigs challenged with enterotoxigenic *Escherichia coli* K88, 1764
Immunology
Identifying critical parameters in the dynamics and control of microparasite infection using a stochastic epidemiological model, 384
Impedance
Prediction of lamb carcass composition by impedance spectroscopy, 816
Imprinting, Pigs
A genome scan for quantitative trait loci and imprinted regions affecting reproduction in pigs, 3421
Inbreeding
Effect of inbreeding on the incidence of retained placenta in Friesian horses, 982

Genetic diversity in and conservation strategy considerations for Navajo Churro sheep, 2900
Incidence
Influence of Ceftiofur sodium biobullet administration on tenderness and tissue damage in beef round muscle, 3308
Inflammation
Chronic lung inflammation affects plasma amino acid concentrations in pigs, 1091
Infrared
Technical note: Comparison of Raman, mid, and near infrared spectroscopy for predicting the amino acid content in animal meals, 2596
Ingestion
Energy requirements of cattle for standing and for ingestion, estimated by a ruminal emptying technique, 129
Injection
Influence of Ceftiofur sodium biobullet administration on tenderness and tissue damage in beef round muscle, 3308
Injuries
Cubicle housing systems for cattle: Comfort of dairy cows depends on cubicle adjustment, 3321
Insulin
Development of a model for inducing transient insulin resistance in the mare: Preliminary implications regarding the estrous cycle, 2321
Effect of increasing levels of undegradable intake protein on metabolic and endocrine factors in estrous cycling beef heifers, 283
Effect of nonwaxy and waxy sorghum on growth, carcass traits, and glucose and insulin kinetics of growing-finishing barrows and gilts, 1699
Inhibition of endogenous nitric oxide production influences ovine hindlimb metabolism independently of insulin concentrations, 2558
Plasma concentrations of leptin, insulin-like growth factor-I, and insulin in relation to changes in body condition score in heifers, 445
Insulin-Like Growth Factor
Conceptus and maternal responses to increased feed intake during early gestation in pigs, 3154
Insulin-Like Growth Factor-Binding Proteins
Ovarian follicular development in cattle selected for twin ovulations and births, 459
The ontogeny of the somatotropic axis in Hereford calves from birth to one year of age and its response to administration of exogenous bovine somatotropin, 1646
Insulin-Like Growth Factor-I
Effect of epidermal growth factor and insulin-like growth factor I on porcine preantral follicular growth, antrum formation, and stimulation of granulosal cell proliferation and suppression of apoptosis in vitro, 1967
Effect of increasing levels of undegradable intake protein on metabolic and endocrine factors in estrous cycling beef heifers, 283
Estimation of (co)variance components for reproductive traits in Angus beef cattle divergently selected for blood serum IGF-I concentration, 2285
Genetic correlation between serum insulin-like growth factor-1 concentration and performance and meat quality traits in Duroc pigs, 994
Plasma concentrations of leptin, insulin-like growth factor-I, and insulin in relation to changes in body condition score in heifers, 445
The ontogeny of the somatotropic axis in Hereford calves from birth to one year of age and its response to administration of exogenous bovine somatotropin, 1646
Insulin Resistance
Development of a model for inducing transient insulin resistance in the mare: Preliminary implications regarding the estrous cycle, 2321
Intake
Effect of fiber-based creep feed on intake, digestion, ruminal fermentation, and microbial efficiency in nursing calves, 3560
Effect of field pea-based creep feed on intake, digestibility, ruminal fermentation, and performance by nursing calves grazing native range in western North Dakota, 3589
Effect of field pea replacement level on intake and digestion in beef steers fed by-product-based medium-concentrate diets, 1855
Effects of increasing level of supplemental barley on forage intake, digestibility, and ruminal fermentation in steers fed medium quality grass hay, 3662
Effects of wet corn gluten feed and intake level on diet digestibility and ruminal passage rate in steers, 3526
Self-limiting supplements fed to cattle grazing native mixed-grass prairie in the northern Great Plains, 298
The influence of high-nitrogen forages on the voluntary feed intake of sheep, 1536
Intake Fluctuation
Effect of feed delivery fluctuations and feeding time on ruminal acidosis, growth performance, and feeding behavior of feedlot cattle, 3357
Interactions
Performance of mouse lines divergently selected for heat loss when exposed to different environmental temperatures. II. Feed intake, growth, fatness, and body organs, 2884
Internal Parasites
Inheritance of fecal egg count and packed cell volume and their relationship with production traits in sheep infected with *Haemonchus contortus*, 1602
Performance of hair sheep composite breeds: Resistance of lambs to *Haemonchus contortus*, 595
Intestinal Health
Effect of plant extracts and formic acid on the intestinal equilibrium of early-weaned pigs, 3210
Intestinal Immunity
Dietary supplementation with phosphorylated mannans improves growth response and modulates immune function of weanling pigs, 1882
Intestine
Effect of high-selenium wheat on visceral organ mass, and intestinal cellularity and vascularity in finishing beef steers, 1788
Spray-dried plasma improves growth performance and reduces inflammatory status of weaned pigs challenged with enterotoxigenic *Escherichia coli* K88, 1764
Intramuscular Fat
Compensatory growth improves meat tenderness in gilts but not in barrows, 3617
Intrauterine
The reproductive performance and factors affecting on-farm application of low-dose intrauterine deposit of semen in sows, 2164
In Vitro
Effect of epidermal growth factor and insulin-like growth factor I on porcine preantral follicular growth, antrum formation, and stimulation of granulosal cell proliferation and suppression of apoptosis in vitro, 1967
Refining in vitro digestibility assays: Fractionation of digestible and indigestible peptides, 1669
In Vitro Fermentation
In vitro fermentation of various fiber and starch sources by pig fecal inocula, 2615
In Vitro Fertilization
Fertilization and blastocyst development in oocytes obtained from prepubertal and adult pigs, 102
In Vitro Maturation
Effects of elevated temperature in vivo on the maturational and developmental competence of porcine germinal vesicle stage oocytes, 3175
In Vivo
Refining in vitro digestibility assays: Fractionation of digestible and indigestible peptides, 1669
Ionophores
Ionophore taste preferences of dairy heifers, 3314
Iron
Effects of dietary iron supplementation on growth performance, hematological status, and whole-body mineral concentrations of nursery pigs, 3189
Irradiation
Evaluation of methods to reduce bacteria concentrations in spray-dried animal plasma and its effects on nursery pig performance, 250
Influence of early postmortem protein oxidation on beef quality, 785
Oxidative environments decrease tenderization of beef steaks through inactivation of μ-calpain, 3254
Isoleucine
Isoleucine requirement for late-finishing (87 to 100 kg) pigs, 1334
Isoleucine requirements and ratios in starting (6 to 11 kg) pigs, 2333
Utilization of spray-dried blood cells and crystalline isoleucine in nursery pig diets, 2397

K

Kinetics
Effect of nitrogen intake on nitrogen recycling and urea transporter abundance in lambs, 1157

L

Lactate
Preslaughter stress and muscle energy largely determine pork quality at two commercial processing plants, 1401
Lactation
Dietary protein concentration affects plasma arteriovenous difference of amino acids across the porcine mammary gland, 2953
Effects of a novel carbohydrate and protein source on sow performance during lactation, 2392
Effects of supplementing with calcium salts of palm oil fatty acids or hydrogenated tallow on ewe milk production and twin lamb growth, 2780
Lactic Acid
Effects of ribose supplementation on selected metabolic measurements and performance in maximally exercising Thoroughbreds, 619
Lactose
Effects of diet complexity and dietary lactose levels during three starter phases on postweaning pig performance, 2790
Lamb
Development and validation of equations utilizing Lamb Vision System (LVS) output to predict lamb carcass fabrication yields, 2069
Effects of birth weight and postnatal nutrition on neonatal sheep: IV. Organ growth, 422
Effects of supplementing with calcium salts of palm oil fatty acids or hydrogenated tallow on ewe milk production and twin lamb growth, 2780
Evaluation of sampling, cookery, and shear force protocols for objective evaluation of lamb longissimus tenderness, 802
Feeding encapsulated ground full-fat soybeans to increase polyunsaturated fat concentrations and effects on flavor volatiles in fresh lamb, 2734
High linoleic acid safflower seed supplementation for gestating ewes: Effects on ewe performance, lamb survival, and brown fat stores, 3654
Manipulation of the *n*-3 polyunsaturated fatty acid content of muscle and adipose tissue in lambs, 1461
Prediction of lamb carcass composition by impedance spectroscopy, 816
Lasalocid
Ionophore taste preferences of dairy heifers, 3314
Learning
A novel cognitive palatability assessment protocol for dogs *Canis familiaris*, 2200
Lectin
Effect of soybean variety and processing on growth performance of young chicks and pigs, 1108
Leg Conformation
Genetic associations of prolificacy with performance, carcass, meat quality, and leg conformation traits in the Finnish Landrace and Large White pig populations, 2301
Leptin
Adipose tissue angiogenesis, 925
Chronic administration of recombinant ovine leptin in growing beef heifers: Effects on secretion of LH, metabolic hormones, and timing of puberty, 2930
Effects of supplemental rumen-protected conjugated linoleic acid or linoleic acid on feedlot performance, carcass quality, and leptin concentrations in beef cattle, 851
Hormonal regulation of leptin and leptin receptor expression in porcine subcutaneous adipose tissue, 3486
Leptin alters antibody isotype in the pig in vivo, but does not regulate cytokine expression or stimulate STAT3 signaling in peripheral blood monocytes in vitro, 1630
Plasma concentrations of leptin, insulin-like growth factor-I, and insulin in relation to changes in body condition score in heifers, 445
The adipocyte as an endocrine cell, 935
Leptin Receptor
Hormonal regulation of leptin and leptin receptor expression in porcine subcutaneous adipose tissue, 3486
Lesions
Influence of Ceftiofur sodium biobullet administration on tenderness and tissue damage in beef round muscle, 3308
Libido
Effect of changing female stimulus on intensive semen collection in young Murciano-Granadina male goats, 1641
Semen characteristics and libido in boars treated repeatedly with $PGF_{2\alpha}$, 1494
Life-Cycle Assessment
Environmental impacts of the Japanese beef-fattening system with different feeding lengths as evaluated by a life-cycle assessment method, 2115
Lifetime Prolificacy
Genetics of length of productive life and lifetime prolificacy in the Finnish Landrace and Large White pig populations, 3111
Limiter
Self-limiting supplements fed to cattle grazing native mixed-grass prairie in the northern Great Plains, 298
Limit Feeding
Effect of source and amount of energy and rate of growth in the growing phase on adipocyte cellularity and lipogenic enzyme activity in the intramuscular and subcutaneous fat depots of Holstein steers, 137
Effect of source and amount of energy and rate of growth in the growing phase on performance and carcass characteristics of early- and normal-weaned steers, 273
Effects of wet corn gluten feed and intake level on diet digestibility and ruminal passage rate in steers, 3526
Limousin
Effects of biological type and dietary fat treatment on factors associated with tenderness: II. Measurements on beef semitendinosus muscle, 779
Effects of biological type and dietary fat treatment on factors associated with tenderness: I. Measurements on beef longissimus muscle, 770
Line Evaluation
National Pork Producers Council Maternal Line Genetic Evaluation: A comparison of growth and carcass traits in terminal progeny, 3482
Linoleic Acid
Feeding encapsulated ground full-fat soybeans to increase polyunsaturated fat concentrations and effects on flavor volatiles in fresh lamb, 2734
High linoleic acid safflower seed supplementation for gestating ewes: Effects on ewe performance, lamb survival, and brown fat stores, 3654
Linolenic Acid
Feeding encapsulated ground full-fat soybeans to increase polyunsaturated fat concentrations and effects on flavor volatiles in fresh lamb, 2734
Lipase
Effect of hypothyroidism on the blood lipid response to higher dietary fat intake in mares, 2640
Fat digestibility in *Equus caballus* follows increasing first-order kinetics, 1773
Lipid
Protein and lipid sources affect cholesterol concentrations of juvenile Pacific white shrimp, *Litopenaeus vannamei* (Boone), 1136
Lipid Infusion
Development of a model for inducing transient insulin resistance in the mare: Preliminary implications regarding the estrous cycle, 2321
Lipogenesis
Brown adipose tissue development and metabolism in ruminants, 942
Lipogenic Enzymes
Effect of source and amount of energy and rate of growth in the growing phase on adipocyte cellularity and lipogenic enzyme activity in the intramuscular and subcutaneous fat depots of Holstein steers, 137
Lipoic Acid
The effects of the antioxidant lipoic acid on beef longissimus bloom time, 3034

Lipoprotein Lipase
Effect of flax supplementation and growth promotants on lipoprotein lipase and glycogenin messenger RNA concentrations in finishing cattle, 1868
Litter
Relationship between litter birth weight and litter size in six breeds of sheep, 612
Litter Size
Genetic analysis of litter size, parturition length, and birth assistance requirements in primiparous sows using a joint linear-threshold animal model, 2528
Responses to 19 generations of litter size selection in the Nebraska Index line. I. Reproductive responses estimated in pure line and crossbred litters, 1000
Responses to 19 generations of litter size selection in the NE Index line. II. Growth and carcass responses estimated in pure line and crossbred litters, 1895
The relationship of porcine sperm zone-binding ability to fertility, 452
Litter Traits
Effects of a novel carbohydrate and protein source on sow performance during lactation, 2392
Genetic correlations between reproduction and production traits in swine, 3458
The National Pork Producers Council Maternal Line National Genetic Evaluation Program: A comparison of six maternal genetic lines for female productivity measures over four parities, 41
Live Weight
Effects of handling intensity and live weight on blood acid-base status in finishing pigs, 2405
Locoweeds
The toxicosis of *Embellisia* fungi from locoweed (*Oxytropis lambertii*) is similar to locoweed toxicosis in rats, 2169
Lolitrem B
Evaluation of perennial ryegrass straw as a forage source for ruminants, 2175
Longevity
Genetic parameters for six measures of length of productive life and three measures of lifetime production by 6 yr after first calving for Hereford cows, 1912
Genetics of length of productive life and lifetime prolificacy in the Finnish Landrace and Large White pig populations, 3111
Number of calves born, number of calves weaned, and cumulative weaning weight as measures of lifetime production for Hereford cows, 1903
Phenotypic relationships between longevity, type traits, and production in Chianina beef cattle, 1572
Longissimus
Evaluation of sampling, cookery, and shear force protocols for objective evaluation of lamb longissimus tenderness, 802
Technical Note: Use of belt grill cookery and slice shear force for assessment of pork longissimus tenderness, 238
The effects of the antioxidant lipoic acid on beef longissimus bloom time, 3034
Longissimus Muscle Area
Development and validation of equations utilizing Lamb Vision System (LVS) output to predict lamb carcass fabrication yields, 2069
Lupinus
The effect of body condition on disposition of alkaloids from silvery lupine (*Lupinus argenteus* Pursh) in sheep, 2798
Luteinization
Inhibition of intrafollicular PGE_2 synthesis and ovulation following ultrasound-mediated intrafollicular injection of the selective cyclooxygenase-2 inhibitor NS-398 in cattle, 1656
Luteinizing Hormone
Chronic administration of recombinant ovine leptin in growing beef heifers: Effects on secretion of LH, metabolic hormones, and timing of puberty, 2930
Effect of increasing levels of undegradable intake protein on metabolic and endocrine factors in estrous cycling beef heifers, 283
Testosterone and luteinizing hormone responses to naloxone help predict sexual performance in rams, 3380
Lying Behavior
Cubicle housing systems for cattle: Comfort of dairy cows depends on cubicle adjustment, 3321
Lymphocyte Transformation
Effect of phosphorylated mannans and pharmacological additions of zinc oxide on growth and immunocompetence of weanling pigs, 581
Lysine
Difference in rates of net portal absorption between crystalline and protein-bound lysine and threonine in growing pigs fed once daily, 1079
Effects of dietary lysine and energy density on performance and carcass characteristics of finishing pigs fed ractopamine, 3277
L-Lysine·HCl
Bioefficacy of L-lysine sulfate compared to feed-grade L-lysine·HCl in young pigs, 2610
L-Lysine Sulfate
Bioefficacy of L-lysine sulfate compared to feed-grade L-lysine·HCl in young pigs, 2610
Lysolecithin
Effects of emulsification, fat encapsulation, and pelleting on weanling pig performance and nutrient digestibility, 2601

M

Magnesium
The apparent digestibility of phytate phosphorus and the influence of supplemental phytase in horses, 1756
Timing of magnesium supplementation administered through drinking water to improve fresh and stored pork quality, 1454
Maillard Reaction Products
Effect of Maillard reaction products on ruminal and fecal acid-resistant *E. coli*, total coliform, VFA profiles, and pH in steers, 1170
Maize
Nutritional value of a corn containing a glutamate dehydrogenase gene for growing pigs, 1693
Maize Gluten
Effects of wet corn gluten feed and intake level on diet digestibility and ruminal passage rate in steers, 3526
Major Histocompatibility Complex
Allelic polymorphism in the ovine *DQA1* gene, 8
Diversity of the ovine *DQA2* gene, 1553
Maltase
Influence of abomasal carbohydrates on small intestinal sodium-dependent glucose cotransporter activity and abundance in steers, 3015
Mammary Development
Impacts of dietary protein level and feed restriction during prepuberty on mammogenesis in gilts, 2343
Mammary Gland
Dietary protein concentration affects plasma arteriovenous difference of amino acids across the porcine mammary gland, 2953
Impacts of dietary protein level and feed restriction during prepuberty on mammogenesis in gilts, 2343
Management
Effect of management strategies on reducing heat stress of feedlot cattle: Feed and water intake, 3077
Effects of feeding strategy and age on live animal performance, carcass characteristics, and economics of short-term feeding programs for culled beef cows, 3646
Manganese
Effect of supplemental manganese on performance and carcass characteristics of growing-finishing swine, 3267
Mannan
Dietary supplementation with phosphorylated mannans improves growth response and modulates immune function of weanling pigs, 1882
Effect of dietary mannanoligosaccharide and sodium chlorate on the growth performance, acute-phase response, and bacterial shedding of weaned pigs challenged with *Salmonella enterica* serotype Typhimurium, 397
Effect of phosphorylated mannans and pharmacological additions of zinc oxide on growth and immunocompetence of weanling pigs, 581
Marbling
Characterization of Certified Angus Beef steaks from the round, loin, and chuck, 1437

Effect of source and amount of energy and rate of growth in the growing phase on performance and carcass characteristics of early- and normal-weaned steers, 273
The relationships among body weight, body composition, and intramuscular fat content in steers, 1315
Marinate
Consumer acceptance of calcium chloride-marinated top loin steaks, 1471
Marine Algae
Manipulation of the *n*-3 polyunsaturated fatty acid content of muscle and adipose tissue in lambs, 1461
Marker Genes
Assessment of positional candidate genes *myf*5 and *igf*1 for growth on bovine chromosome 5 in commercial lines of*Bos taurus*, 1
Markers
Technical Note: A procedure for preparation and quantitative analysis of samples for titanium dioxide, 179
Market Research
Consumer visual preference and value for beef steaks differing in marbling level and color, 3288
Maternal
Teat scores in first-parity Gelbvieh cows: Relationship with suspensory score and calf growth traits, 2277
Maternal Effects
The effect of divergent selection for uterine capacity on fetal and placental development at term in rabbits: maternal and embryonic genetic effects, 1046
The effect of divergent selection for uterine capacity on prenatal survival in rabbits: Maternal and embryonic genetic effects, 68
Maternal Nutrition
Effect of early gestation feeding, birth weight, and gender of progeny on muscle fiber characteristics of pigs at slaughter, 826
Mating Behavior
Effect of changing female stimulus on intensive semen collection in young Murciano-Granadina male goats, 1641
Mature Weight
Covariance functions and random regression models for cow weight in beef cattle, 54
Maturity
Comparisons of Angus, Charolais, Galloway, Hereford, Longhorn, Nellore, Piedmontese, Salers, and Shorthorn breeds for weight, weight adjusted for condition score, height, and condition score of cows, 74
Meat Composition
Genetic relationships between sex-specific traits in beef cattle: Mature weight, weight adjusted for body condition score, height and body condition score of cows, and carcass traits of their steer relatives, 647
Meat Quality
Characterization of quantitative trait loci for growth and meat quality in a cross between commercial breeds of swine, 2213
Effect of supplemental manganese on performance and carcass characteristics of growing-finishing swine, 3267
Environmental effects on pig performance, meat quality, and muscle characteristics, 209
Free-range rearing of pigs during the winter: Adaptations in muscle fiber characteristics and effects on adipose tissue composition and meat quality traits, 1206
Genetic correlation between serum insulin-like growth factor-1 concentration and performance and meat quality traits in Duroc pigs, 994
Genetics of osteochondral disease and its relationship with meat quality and quantity, growth, and feed conversion traits in pigs, 3118
Influence of quality classification, aging period, blade tenderization, and endpoint cooking temperature on cooking characteristics and tenderness of beef gluteus medius steaks, 1863
Mechanical probes can predict tenderness of cooked beef longissimus using uncooked measurements, 2077
New alleles in calpastatin gene are associated with meat quality traits in pigs, 2829
Preslaughter stress and muscle energy largely determine pork quality at two commercial processing plants, 1401
Rapid chilling cannot prevent inferior pork quality caused by high preslaughter stress, 551
The effect of dietary ractopamine concentration and duration of feeding on growth performance, carcass characteristics, and meat quality of finishing pigs, 3245
The effect of selection for growth rate and slaughter age on carcass composition and meat quality traits in rabbits, 3138
The effects of gender and slaughter weight on the growth performance, carcass traits, and meat quality characteristics of heavy pigs, 526
Within-litter variation in muscle fiber characteristics, pig performance, and meat quality traits, 414
Meat Tenderness
Association of markers in the bovine *CAPN1* gene with meat tenderness in large crossbred populations that sample influential industry sires, 3474
Bovine metalloprotease characterization and in vitro connective tissue degradation, 1475
Meiosis
Effects of elevated temperature in vivo on the maturational and developmental competence of porcine germinal vesicle stage oocytes, 3175
Melengestrol Acetate
Methods to reduce or eliminate detection of estrus in a melengestrol acetate-$PGF_{2\alpha}$ protocol for synchronization of estrus in beef heifers, 3071
Synchronization of estrus in postpartum beef cows and virgin heifers using combinations of melengestrol acetate, GnRH, and $PGF_{2\alpha}$, 867
Messenger RNA
Abundance of mRNA encoding for components of the somatotropic axis and insulin receptor in different layers of the jejunum and ileum of neonatal calves, 3181
Metabolic Hormones
Chronic administration of recombinant ovine leptin in growing beef heifers: Effects on secretion of LH, metabolic hormones, and timing of puberty, 2930
Performance of mouse lines divergently selected for heat loss when exposed to different environmental temperatures. I. Reproductive performance, pup survival, and metabolic hormones, 2876
Metabolic Stress
A resource allocation model describing consequences of artificial selection under metabolic stress, 973
Metabolism
Source and level of supplemental protein for growing lambs, 3237
Metabolites
Effect of live weight gain of steers during winter grazing: III. Blood metabolites and hormones during feedlot finishing, 2059
Plasma hormones and metabolites in Piedmontese cows during late pregnancy: Relationships with calf birth weight, 438
Metalloprotease
Bovine metalloprotease characterization and in vitro connective tissue degradation, 1475
Methane
Effect of Japanese horseradish oil on methane production and ruminal fermentation in vitro and in steers, 1839
Effects of a twin strain of *Saccharomyces cerevisiae* live cells on mixed ruminal microorganism fermentation in vitro, 1847
Methane emissions from beef cattle: Effects of monensin, sunflower oil, enzymes, yeast, and fumaric acid, 3346
Methionine
Effects of ammonia load on methionine utilization by growing steers, 3537
Methodology
Evaluation of procedures to predict fat-free lean in swine carcasses, 2428
Flow paths of plant tissue residues and digesta through gastrointestinal segments in Spanish goats and methodological considerations, 508
Method ℜ
Additive genetic relationships between heifer pregnancy and scrotal circumference in Nellore cattle, 2519
Mice
Performance of mouse lines divergently selected for heat loss when exposed to different environmental temperatures. II. Feed intake, growth, fatness, and body organs, 2884
Performance of mouse lines divergently selected for heat loss when exposed to different environmental temperatures. I. Reproductive performance, pup survival, and metabolic hormones, 2876
Microarray
A mixed-model approach for the analysis of cDNA microarray gene expression data from extreme-performing pigs after infection with *Actinobacillus pleuropneumoniae*, 1261

Evaluation of gene expression in pigs selected for enhanced reproduction using differential display PCR and human microarrays: I. Ovarian follicles, 17
Microbial Efficiency
Effects of supplemental protein type on intake, nitrogen balance, and site, and extent of digestion in whiteface wethers consuming low-quality grass hay, 3567
Microbial Fiber Degradation
Metabolic and microbial responses in western crossbred and Meishan growing pigs fed a high-fiber diet, 1740
Microbial Flora
Relative ileal amino acid flows and microbial counts in intestinal effluents of Goettingen Minipigs and Saddleback pigs are not different, 1976
Microbial Nitrogen
Fermentation of eastern gamagrass (*Tripsacum dactyloides* [L.] L.) by mixed cultures of ruminal microorganisms with or without supplemental corn, 170
Microbiota
Effect of plant extracts and formic acid on the intestinal equilibrium of early-weaned pigs, 3210
Microfilaments
Light microscopy and image analysis of thin filament lengths utilizing dual probes on beef, chicken, and rabbit myofibrils, 1445
Microsatellite
Genetic diversity analyses of 10 indigenous Chinese pig populations based on 20 microsatellites, 368
Genetic relationships and admixture among sheep breeds from Northern Spain assessed using microsatellites, 2246
Migration Rate
Genetic relationships and admixture among sheep breeds from Northern Spain assessed using microsatellites, 2246
Milk
Cubicle housing systems for cattle: Comfort of dairy cows depends on cubicle adjustment, 3321
Nucleotides in sow colostrum and milk at different stages of lactation, 1339
Milk Chocolate
Effects of a novel carbohydrate and protein source on sow performance during lactation, 2392
Milking
Coping capacity of dairy cows during the change from conventional to automatic milking, 563
Milk Replacer
Effect of antibiotics in milk replacer on fecal shedding of *Escherichia coli* O157:H7 in calves, 2148
Minerals
Effect of supplemental vitamin D_3 concentration on concentrations of calcium, phosphorus,
and magnesium relative to protein in subcellular components of the longissimus and the
distribution of calcium within longissimus muscle of beef steers, 2742
Growing and finishing performance of steers when fed recycled poultry bedding during the growing period, 3038
Use of chemical characteristics to predict the relative bioavailability of supplemental organic manganese sources for broilers, 2352
Mixed Linear Model
A method of computing restricted best linear unbiased prediction of breeding values for some animals in a population, 2253
Mixed Models
Joint analysis of multiple cDNA microarray studies via multivariate mixed models applied to genetic improvement of beef cattle, 3430
Mobile Nylon Bag
Effect of diet composition and feeding pattern on the prececal digestibility of starches from diverse botanical origins measured with the mobile nylon bag technique in horses, 3625
Modeling
A dynamic model for ovulation rate reveals an effect of the estrogen receptor genotype on ovarian follicular development in the pig, 2329
Models
A mechanistic model for predicting the nutrient requirements and feed biological values for sheep, 149
Monensin
Ionophore taste preferences of dairy heifers, 3314
Monounsaturated Fatty Acids
Insulin and dexamethasone regulate stearoyl-CoA desaturase mRNA levels and fatty acid synthesis in ovine adipose tissue explants, 231
Morbidity
Morbidity effects on productivity and profitability of stocker cattle grazing in the Southern Plains, 2773
Morphology
Brown adipose tissue development and metabolism in ruminants, 942
Effects of a quantitative trait locus for muscle hypertrophy from Belgian Texel sheep on carcass conformation and muscularity, 3128
Mortality
Association of myostatin on early calf mortality, growth, and carcass composition traits in crossbred cattle, 2913
Genetic and nongenetic influences on vigor at birth and preweaning mortality of purebred and high percentage Brahman calves, 1581
Performance of mouse lines divergently selected for heat loss when exposed to different environmental temperatures. I. Reproductive performance, pup survival, and metabolic hormones, 2876
Multienzyme Preparations
Dietary supplementation with multienzyme preparations improves nutrient utilization and growth performance in weaned pigs, 1053
Multiple Breed
Hierarchical Bayes multiple-breed inference with an application to genetic evaluation of a Nelore-Hereford population, 1589
Muscle
Evaluating consumer acceptability of various muscles from the beef chuck and rib, 521
Mapping of quantitative trait loci for growth and carcass traits in commercial sheep populations, 2234
Variation in palatability and biochemical traits within and among eleven beef muscles, 534
Muscle Enzymes
Antioxidant supplementation and subsequent oxidative stress of horses during an 80-km endurance race, 588
Muscle Fibers
Effect of early gestation feeding, birth weight, and gender of progeny on muscle fiber characteristics of pigs at slaughter, 826
Environmental effects on pig performance, meat quality, and muscle characteristics, 209
Free-range rearing of pigs during the winter: Adaptations in muscle fiber characteristics and effects on adipose tissue composition and meat quality traits, 1206
Myosin heavy chain composition of different skeletal muscles in Large White and Meishan pigs, 1931
Muscle Fiber Characteristics
Within-litter variation in muscle fiber characteristics, pig performance, and meat quality traits, 414
Muscle Growth
Compensatory growth improves meat tenderness in gilts but not in barrows, 3617
Muscularity
Effects of a quantitative trait locus for muscle hypertrophy from Belgian Texel sheep on carcass conformation and muscularity, 3128
Mycotoxins
Effects of feeding blends of grains naturally contaminated with *Fusarium* mycotoxins on brain regional neurochemistry of starter pigs and broiler chickens, 2131
Myoglobin
Breed differences and genetic parameters of myoglobin concentration in porcine longissimus muscle, 2264
Myosin
Myosin heavy chain composition of different skeletal muscles in Large White and Meishan pigs, 1931
Myosin Heavy Chains
Effects of a quantitative trait locus for muscle hypertrophy from Belgian Texel sheep on carcass conformation and muscularity, 3128
Myostatin
Association of myostatin on early calf mortality, growth, and carcass composition traits in crossbred cattle, 2913

N

Naloxone
Testosterone and luteinizing hormone responses to naloxone help predict sexual performance in rams, 3380
Navajo-Churro
Genetic diversity in and conservation strategy considerations for Navajo Churro sheep, 2900
Neurochemistry
Effects of feeding blends of grains naturally contaminated with *Fusarium* mycotoxins on brain regional neurochemistry of starter pigs and broiler chickens, 2131
Nitric Oxide
Inhibition of endogenous nitric oxide production influences ovine hindlimb metabolism independently of insulin concentrations, 2558
L-N^G-Nitroarginine Methyl Ester (Hydrochloride)
Inhibition of endogenous nitric oxide production influences ovine hindlimb metabolism independently of insulin concentrations, 2558
Nitrogen
Effect of imbalance between energy and nitrogen supplies on microbial protein synthesis and nitrogen metabolism in growing double-muscled Belgian Blue bulls, 1818
Estimation of the proportion of bacterial nitrogen in canine feces using diaminopimelic acid as an internal bacterial marker, 1707
Ruminal and host adaptations to changes in frequency of protein supplementation, 895
The influence of high-nitrogen forages on the voluntary feed intake of sheep, 1536
Nitrogen Balance
Compensatory growth and nitrogen balance in grower-finisher pigs, 2579
Effect of imbalance between energy and nitrogen supplies on microbial protein synthesis and nitrogen metabolism in growing double-muscled Belgian Blue bulls, 1818
Effect of organic matter addition to the pen surface and pen cleaning frequency on nitrogen mass balance in open feedlots, 2153
Nitrogen Degradability
Prediction of nutritive values in grass silages: II. Degradability of nitrogen and dry matter using digestibility, chemical composition, and fermentation data, 1380
Nitrogen Digestibility
Dried skim milk as a replacement for soybean meal in growing-finishing diets: Effects on growth performance, apparent total tract nitrogen digestibility, urinary and fecal nitrogen excretion, and carcass traits in pigs, 3338
Nitrogen Metabolism
Effect of nitrogen intake on nitrogen recycling and urea transporter abundance in lambs, 1157
Nitrogen balance in lambs fed a high-concentrate diet and infused with differing proportions of casein in the rumen and abomasum, 495
Nitrogen balance in lambs fed low-quality brome hay and infused with differing proportions of casein in the rumen and abomasum, 502
Nitrogen Utilization
Effect of dietary crude protein level and degradability on ruminal fermentation and nitrogen utilization in lactating dairy cows, 3219
Nonesterified Fatty Acids
Inhibition of endogenous nitric oxide production influences ovine hindlimb metabolism independently of insulin concentrations, 2558
Nonlinear Model
Additive genetic relationships between heifer pregnancy and scrotal circumference in Nellore cattle, 2519
Nonprotein Nitrogen
Daily and alternate day supplementation of urea or biuret to ruminants consuming low-quality forage: I. Effects on cow performance and the efficiency of nitrogen use in wethers, 1508
Daily and alternate-day supplementation of urea or biuret to ruminants consuming low-quality forage: II. Effects on site of digestion and microbial efficiency in steers, 1518
Daily and alternate-day supplementation of urea or biuret to ruminants consuming low-quality forage: III. Effects on ruminal fermentation characteristics in steers, 1528
Nonstructural Carbohydrates
Nonstructural carbohydrate supplementation of yearling heifers and range beef cows, 2724
Normality
Characteristics of calves produced with sperm sexed by flow cytometry/cell sorting, 1029
Novel Endophyte
Growth rate and physiology of steers grazing tall fescue inoculated with novel endophytes, 878
Nucleotides
Nucleotides in sow colostrum and milk at different stages of lactation, 1339
Nursery
Growth performance of nursery pigs fed diets containing increasing levels of corn distiller's dried grains with solubles originating from a modern Midwestern ethanol plant, 122
Nursery Pig
Effects of dietary iron supplementation on growth performance, hematological status, and whole-body mineral concentrations of nursery pigs, 3189
Evaluation of methods to reduce bacteria concentrations in spray-dried animal plasma and its effects on nursery pig performance, 250
Evaluation of various inclusion rates of organic zinc either as polysaccharide or proteinate complex on the growth performance, plasma, and excretion of nursery pigs, 1359
The effects of poultry meal source and ash level on nursery pig performance, 2750
Utilization of spray-dried blood cells and crystalline isoleucine in nursery pig diets, 2397
Nursing Calves
Effect of fiber-based creep feed on intake, digestion, ruminal fermentation, and microbial efficiency in nursing calves, 3560
Effect of field pea-based creep feed on intake, digestibility, ruminal fermentation, and performance by nursing calves grazing native range in western North Dakota, 3589
Nutrient Absorption
Soybean oil supplementation of a high-concentrate diet does not affect site and extent of organic matter, starch, neutral detergent fiber, or nitrogen digestion, but influences both ruminal metabolism and intestinal flow of fatty acids in limit-fed lambs, 2985
Nutrient Balance
Nitrogen balance in lambs fed a high-concentrate diet and infused with differing proportions of casein in the rumen and abomasum, 495
Nitrogen balance in lambs fed low-quality brome hay and infused with differing proportions of casein in the rumen and abomasum, 502
The efficacy of an *Escherichia coli*-derived phytase preparation, 2657
Nutrient Digestibility
Diet affects nutrient digestibility, hematology, and serum chemistry of senior and weanling dogs, 1713
Dietary supplementation with multienzyme preparations improves nutrient utilization and growth performance in weaned pigs, 1053
Nutrients
Nutritional value of a corn containing a glutamate dehydrogenase gene for growing pigs, 1693
Nutrient Utilization
Metabolic and microbial responses in western crossbred and Meishan growing pigs fed a high-fiber diet, 1740
Nutrition
Effects of birth weight and postnatal nutrition on neonatal sheep: IV. Organ growth, 422
Plasma concentrations of leptin, insulin-like growth factor-I, and insulin in relation to changes in body condition score in heifers, 445
Nutrition Physiology
Effect of diet composition and feeding pattern on the prececal digestibility of starches from diverse botanical origins measured with the mobile nylon bag technique in horses, 3625

O

Odor
Effect of dietary copper source (cupric citrate and cupric sulfate) and concentration on growth performance and fecal copper excretion in weanling pigs, 1234

Odor-Causing Compounds
Excretion of major odor-causing and acidifying compounds in response to dietary supplementation of chicory inulin in growing pigs, 1678
Oil
Manipulation of the *n*-3 polyunsaturated fatty acid content of muscle and adipose tissue in lambs, 1461
Value of sunflower seed in finishing diets of feedlot cattle, 2679
Oleic Acid
Differing effects of forage and concentrate diets on the oleic acid and conjugated linoleic acid content of sheep tissues: The role of stearoyl-CoA desaturase, 747
Olive Leaves
Ruminal fermentation and degradation patterns, protozoa population and urinary purine derivatives excretion in goats and wethers fed diets based on olive leaves, 3006
Omega-3 Fatty Acids
Role of fatty acids in adipocyte growth and development, 916
The effect of dietary fish oil supplementation on exercising horses, 2978
Oocyte
The relationship of porcine sperm zone-binding ability to fertility, 452
Optimization
Maximizing genetic gain over multiple generations with quantitative trait locus selection and control of inbreeding, 1305
Optimized Contributions Selection
Maximizing genetic gain over multiple generations with quantitative trait locus selection and control of inbreeding, 1305
Organic Matter
Effect of organic matter addition to the pen surface and pen cleaning frequency on nitrogen mass balance in open feedlots, 2153
Organic Zinc
Evaluation of various inclusion rates of organic zinc either as polysaccharide or proteinate complex on the growth performance, plasma, and excretion of nursery pigs, 1359
Organs
Effect of live weight gain of steers during winter grazing: II. Visceral organ mass, cellularity, and oxygen consumption, 184
Effects of birth weight and postnatal nutrition on neonatal sheep: IV. Organ growth, 422
Osmolality
Indicators of tenderization are detectable by 12 h postmortem in ovine longissimus, 1428
Osteochondrosis
Genetics of osteochondral disease and its relationship with meat quality and quantity, growth, and feed conversion traits in pigs, 3118
Osteophytes Development
Prevalence of spondylosis deformans and estimates of genetic parameters for the degree of osteophytes development in Italian Boxer dogs, 85
Ovarian Folliculogenesis
Ovarian follicular development in cattle selected for twin ovulations and births, 459
Ovary
Lack of an association between plasma follicle-stimulating hormone concentrations and ovarian weight in prepubertal gilts, 472
Ovine
Indicators of tenderization are detectable by 12 h postmortem in ovine longissimus, 1428
Inhibition of endogenous nitric oxide production influences ovine hindlimb metabolism independently of insulin concentrations, 2558
Ovulation
Inhibition of intrafollicular PGE_2 synthesis and ovulation following ultrasound-mediated intrafollicular injection of the selective cyclooxygenase-2 inhibitor NS-398 in cattle, 1656
Lack of an association between plasma follicle-stimulating hormone concentrations and ovarian weight in prepubertal gilts, 472
Ovulation Rate
A dynamic model for ovulation rate reveals an effect of the estrogen receptor genotype on ovarian follicular development in the pig, 2329
Effects of feed restriction on reproductive and metabolic hormones in ewes, 2548
Evaluation of gene expression in pigs selected for enhanced reproduction using differential display PCR and human microarrays: I. Ovarian follicles, 17
Oxidation
Influence of early postmortem protein oxidation on beef quality, 785
Oxidative Metabolism
Oxidation of glucose, glutamate, and glutamine by isolated ovine enterocytes in vitro is decreased by the presence of other metabolic fuels, 479
Oxidative Stress
Antioxidant supplementation and subsequent oxidative stress of horses during an 80-km endurance race, 588
Oxygen Consumption
Effect of live weight gain of steers during winter grazing: II. Visceral organ mass, cellularity, and oxygen consumption, 184

P

Palatability
A novel cognitive palatability assessment protocol for dogs *Canis familiaris*, 2200
Characterization of biological types of cattle (Cycle VI): Carcass, yield, and longissimus palatability traits, 1177
Effects of supplemental fat on growth performance and quality of beef from steers fed barley-potato product finishing diets: I. Feedlot performance, carcass traits, appearance, water binding, retail storage, and palatability attributes, 3600
Evaluating consumer acceptability of various muscles from the beef chuck and rib, 521
Evaluation of stabilized rice bran as an ingredient in dry extruded dog diets, 1122
Pancreatic Secretion
Pancreatic exocrine secretion and plasma concentration of some gastrointestinal hormones in response to abomasal infusion of starch hydrolyzate and/or casein, 1781
Parturition
Genetic analysis of litter size, parturition length, and birth assistance requirements in primiparous sows using a joint linear-threshold animal model, 2528
Passage Rate
Effects of wet corn gluten feed and intake level on diet digestibility and ruminal passage rate in steers, 3526
Pea
Effect of field pea level on intake, digestion, microbial efficiency, ruminal fermentation, and in situ disappearance in beef steers fed growing diets, 2123
Pens
Effect of housing system and boar exposure on estrous expression in weaned sows, 3088
Pentosans
Challenges and opportunities in the analysis of raffinose oligosaccharides, pentosans, phytate, and glucosinolates, 319
Perennial Ryegrass
Evaluation of perennial ryegrass straw as a forage source for ruminants, 2175
Performance
Different measures of energetic efficiency and their phenotypic relationships with growth, feed intake, and ultrasound and carcass merit in hybrid cattle, 2451
Effect of Cu, Zn, and Mn supplementation and source on reproduction, mineral status, and performance in grazing beef cattle over a two-year period, 2375
Effect of feed delivery fluctuations and feeding time on ruminal acidosis, growth performance, and feeding behavior of feedlot cattle, 3357
Effect of simulated ambient particulate matter exposure on performance, rectal temperature, and leukocytosis of young Spanish goats with or without tilmicosin phosphate, 1219
Effect of supranutritional and organically bound selenium on performance, carcass characteristics, and selenium distribution in finishing beef steers, 1488
Effects of copper and zinc source on performance and humoral immune response of newly received, lightweight beef heifers, 2467
Effects of different grazing and feeding periods on performance and carcass traits of beef steers, 292

Effects of growth-promoting agents and season on yearling feedlot heifer performance, 2481
Effects of ribose supplementation on selected metabolic measurements and performance in maximally exercising Thoroughbreds, 619
Evaluation of various inclusion rates of organic zinc either as polysaccharide or proteinate complex on the growth performance, plasma, and excretion of nursery pigs, 1359
Genetic associations of prolificacy with performance, carcass, meat quality, and leg conformation traits in the Finnish Landrace and Large White pig populations, 2301
Performance and carcass quality of steers fed whole raw soybeans at increasing inclusion levels, 725
The effects of gender and slaughter weight on the growth performance, carcass traits, and meat quality characteristics of heavy pigs, 526
Use of pet food-grade poultry by-product meal as an alternate protein source in weanling pig diets, 3049
Value of sunflower seed in finishing diets of feedlot cattle, 2679
Within-litter variation in muscle fiber characteristics, pig performance, and meat quality traits, 414
Phagocytosis
Dietary supplementation with phosphorylated mannans improves growth response and modulates immune function of weanling pigs, 1882
Phenolic Compounds
Effect of alkali pretreatment of wheat straw on the efficacy of exogenous fibrolytic enzymes, 198
Phenotype
Utilization of beef from different cattle phenotypes to produce a guaranteed tender beef product, 1190
Phospholipase
Effect of supplementation of xylanase and phospholipase to a wheat-based diet for weanling pigs on nutrient digestibility and concentrations of microbial metabolites in ileal digesta and feces, 2647
Phospholipids
Manipulation of the *n*-3 polyunsaturated fatty acid content of muscle and adipose tissue in lambs, 1461
Phosphorus
Effects of biological type of beef steers on vitamin D, calcium, and phosphorus status, 2043
Effects of combining three fungal phytases with a bacterial phytase on plasma phosphorus status of weanling pigs fed a corn-soy diet, 1725
High dietary phytase levels maximize phytate-phosphorus utilization but do not affect protein utilization in chicks fed phosphorus- or amino acid-deficient diets, 1100
Phosphorus requirements of growing-finishing pigs reared in a commercial environment, 2945
Supplemental vitamin D_3 concentration and biological type of beef steers: I. Feedlot performance and carcass traits, 2050
The apparent digestibility of phytate phosphorus and the influence of supplemental phytase in horses, 1756
The efficacy of an *Escherichia coli*-derived phytase preparation, 2657
Physiological Model
Growth rate consists of baseline and systematic deviation components in Thoroughbreds, 1007
Physiological Variables
Viability of Iberian × Meishan F_2 newborn pigs: I. Analysis of physiological and vitality variables, 1919
Physiology
Estimation of (co)variance components for reproductive traits in Angus beef cattle divergently selected for blood serum IGF-I concentration, 2285
Phytase
Effect of aluminum chloride and dietary phytase on relative ammonia losses from swine manure, 605
Effect of phytase addition and dietary calcium and phosphorus levels on plasma metabolites and ileal and total-tract nutrient digestibility in pigs, 705
Effects of combining three fungal phytases with a bacterial phytase on plasma phosphorus status of weanling pigs fed a corn-soy diet, 1725
Effects of microbial phytase, low calcium and phosphorus, and removing the dietary trace mineral premix on carcass traits, pork quality, plasma metabolites, and tissue mineral content in growing-finishing pigs, 2630
High dietary phytase levels maximize phytate-phosphorus utilization but do not affect protein utilization in chicks fed phosphorus- or amino acid-deficient diets, 1100
Pharmacological zinc levels reduce the phosphorus-releasing efficacy of phytase in young pigs and chickens, 1732
The apparent digestibility of phytate phosphorus and the influence of supplemental phytase in horses, 1756
The efficacy of an *Escherichia coli*-derived phytase preparation, 2657
Phytate
Challenges and opportunities in the analysis of raffinose oligosaccharides, pentosans, phytate, and glucosinolates, 319
The apparent digestibility of phytate phosphorus and the influence of supplemental phytase in horses, 1756
Pig
A dynamic model for ovulation rate reveals an effect of the estrogen receptor genotype on ovarian follicular development in the pig, 2329
Assessment of the feeding value of South Dakota-grown field peas (*Pisum sativum* L.) for growing pigs, 2568
Backtest type and housing condition of pigs influence energy metabolism, 1227
Behavior and reproductive performance by stalled breeding females on a commercial swine farm, 1482
Bioefficacy of L-lysine sulfate compared to feed-grade L-lysine·HCl in young pigs, 2610
Chronic lung inflammation affects plasma amino acid concentrations in pigs, 1091
Cloning and expression of porcine adiponectin and adiponectin receptor 1 and 2 genes in pigs, 3162
Comparison of wheat gluten and spray-dried animal plasma in diets for nursery pigs, 3635
Compensatory growth and nitrogen balance in grower-finisher pigs, 2579
Computer image analysis for measuring lean and fatty areas in cross-sectioned dry-cured hams, 808
Conceptus and maternal responses to increased feed intake during early gestation in pigs, 3154
Copper proteinate in weanling pig diets for enhancing growth performance and reducing fecal copper excretion comapred with copper sulfate, 1062
Difference in rates of net portal absorption between crystalline and protein-bound lysine and threonine in growing pigs fed once daily, 1079
Digestibility of nitrogen and amino acids in soybean meal with added soyhulls, 715
Effect of a ractopamine feeding program on growth performance and carcass composition in finishing pigs, 2474
Effect of dietary copper source (cupric citrate and cupric sulfate) and concentration on growth performance and fecal copper excretion in weanling pigs, 1234
Effect of dietary mannanoligosaccharide and sodium chlorate on the growth performance, acute-phase response, and bacterial shedding of weaned pigs challenged with *Salmonella enterica* serotype Typhimurium, 397
Effect of dietary trace mineral concentration and source (inorganic vs. chelated) on performance, mineral status, and fecal mineral excretion in pigs from weaning through finishing, 2140
Effect of divergent selection for testosterone production on testicular morphology and daily sperm production in boars, 2259
Effect of drinker type and sound stimuli on early-weaned pig performance and behavior, 2105
Effect of early gestation feeding, birth weight, and gender of progeny on muscle fiber characteristics of pigs at slaughter, 826
Effect of feather meal on barrow performance, 2588
Effect of feed intake on endogenous losses and amino acid and energy digestibility by growing pigs, 3518
Effect of heat exposure on uncoupling protein-3 mRNA abundance in porcine skeletal muscle, 3493
Effect of nonwaxy and waxy sorghum on growth, carcass traits, and glucose and insulin kinetics of growing-finishing barrows and gilts, 1699
Effect of phytase addition and dietary calcium and phosphorus levels on plasma metabolites and ileal and total-tract nutrient digestibility in pigs, 705
Effect of soybean variety and processing on growth performance of young chicks and pigs, 1108
Effect of supplemental tryptophan, vitamin E, and a herbal product on responses by pigs to vibration, 2410

Effects of combining three fungal phytases with a bacterial phytase on plasma phosphorus status of weanling pigs fed a corn-soy diet, 1725
Effects of diet complexity and dietary lactose levels during three starter phases on postweaning pig performance, 2790
Effects of exogenous ghrelin on feed intake, weight gain, behavior, and endocrine responses in weanling pigs, 1957
Effects of feeding blends of grains naturally contaminated with *Fusarium* mycotoxins on brain regional neurochemistry of starter pigs and broiler chickens, 2131
Effects of microbial phytase, low calcium and phosphorus, and removing the dietary trace mineral premix on carcass traits, pork quality, plasma metabolites, and tissue mineral content in growing-finishing pigs, 2630
Effects of rancidity and free fatty acids in choice white grease on growth performance and nutrient digestibility in weanling pigs, 2937
Environmental effects on pig performance, meat quality, and muscle characteristics, 209
Evaluation of a rendered poultry mortality–soybean meal product as a supplemental protein source for pig diets, 1071
Evaluation of exogenous glucocorticoid injection on preweaning growth performance of neonatal pigs under commercial conditions, 1241
Evaluation of gene expression in pigs selected for enhanced reproduction using differential display PCR and human microarrays: I. Ovarian follicles, 17
Evaluation of gene expression in pigs selected for enhanced reproduction using differential display PCR: II. Anterior pituitary, 32
Evaluation of procedures to predict fat-free lean in swine carcasses, 2428
Excretion of major odor-causing and acidifying compounds in response to dietary supplementation of chicory inulin in growing pigs, 1678
Fertilization and blastocyst development in oocytes obtained from prepubertal and adult pigs, 102
Free-range rearing of pigs during the winter: Adaptations in muscle fiber characteristics and effects on adipose tissue composition and meat quality traits, 1206
Genetic associations of prolificacy with performance, carcass, meat quality, and leg conformation traits in the Finnish Landrace and Large White pig populations, 2301
Genetic correlation between serum insulin-like growth factor-1 concentration and performance and meat quality traits in Duroc pigs, 994
Genetic correlations between reproduction and production traits in swine, 3458
Genetic diversity analyses of 10 indigenous Chinese pig populations based on 20 microsatellites, 368
Genetics of osteochondral disease and its relationship with meat quality and quantity, growth, and feed conversion traits in pigs, 3118
Growth and compositional changes of fetal tissues in pigs, 2534
Ileal amino acid digestibility and performance of growing pigs fed wheat-based diets supplemented with xylanase, 1997
Impacts of dietary protein level and feed restriction during prepuberty on mammogenesis in gilts, 2343
Improving pork quality by feeding supranutritional concentrations of vitamin D_3, 218
Intermittent suckling: Effects on piglet and sow performance before and after weaning, 405
In vitro fermentation of various fiber and starch sources by pig fecal inocula, 2615
Leptin alters antibody isotype in the pig in vivo, but does not regulate cytokine expression or stimulate STAT3 signaling in peripheral blood monocytes in vitro, 1630
Long-term, but not short-term, treatment with somatotropin during pregnancy in inderfed pigs increases the body size of progeny at birth, 93
Long-term effects of dietary organic and inorganic selenium sources and levels on reproducing sows and their progeny, 1343
Metabolic and microbial responses in western crossbred and Meishan growing pigs fed a high-fiber diet, 1740
Modeling the effects of stressors on the performance of populations of pigs, 2442
Myosin heavy chain composition of different skeletal muscles in Large White and Meishan pigs, 1931
National Pork Producers Council Maternal Line Genetic Evaluation: A comparison of growth and carcass traits in terminal progeny, 3482
New alleles in calpastatin gene are associated with meat quality traits in pigs, 2829
Nutritional value of a corn containing a glutamate dehydrogenase gene for growing pigs, 1693
Performance of growing-finishing pigs fed diets containing Roundup Ready corn (event nk603), a nontransgenic genetically similar corn, or conventional corn lines, 571
Pharmacological zinc levels reduce the phosphorus-releasing efficacy of phytase in young pigs and chickens, 1732
Phosphorus requirements of growing-finishing pigs reared in a commercial environment, 2945
Preslaughter stress and muscle energy largely determine pork quality at two commercial processing plants, 1401
Rapid chilling cannot prevent inferior pork quality caused by high preslaughter stress, 551
Relative ileal amino acid flows and microbial counts in intestinal effluents of Goettingen Minipigs and Saddleback pigs are not different, 1976
Response of barrows to space allocation and ractopamine, 3373
Responses to 19 generations of litter size selection in the NE Index line. II. Growth and carcass responses estimated in pure line and crossbred litters, 1895
Spray-dried plasma improves growth performance and reduces inflammatory status of weaned pigs challenged with enterotoxigenic *Escherichia coli* K88, 1764
The effect of dietary docosahexaenoic acid on the expression of porcine lipid metabolism-related genes, 683
The effect of space allocation on barrow and gilt performance, 2460
The effects of gender and slaughter weight on the growth performance, carcass traits, and meat quality characteristics of heavy pigs, 526
The efficacy of an *Escherichia coli*-derived phytase preparation, 2657
The National Pork Producers Council Maternal Line National Genetic Evaluation Program: A comparison of six maternal genetic lines for female productivity measures over four parities, 41
The physical size of gestating sows, 2421
The relationship of porcine sperm zone-binding ability to fertility, 452
Vitamin E supplementation does not mitigate the acute morbidity effects of porcine reproductive and respiratory syndrome virus in nursery pigs, 1942
Within-litter variation in muscle fiber characteristics, pig performance, and meat quality traits, 414

Piglet
Effect of plant extracts and formic acid on the intestinal equilibrium of early-weaned pigs, 3210
Effect of supplementation of xylanase and phospholipase to a wheat-based diet for weanling pigs on nutrient digestibility and concentrations of microbial metabolites in ileal digesta and feces, 2647
Nucleotides in sow colostrum and milk at different stages of lactation, 1339
Specific dietary selection for tryptophan by the piglet, 1115
Viability of Iberian × Meishan F_2 newborn pigs: I. Analysis of physiological and vitality variables, 1919

Pit-1
Associations of polymorphisms in the *Pit-1* gene with growth and carcass traits in Angus beef cattle, 2229

Pituitary
Evaluation of gene expression in pigs selected for enhanced reproduction using differential display PCR: II. Anterior pituitary, 32

Placenta
The effect of divergent selection for uterine capacity on fetal and placental development at term in rabbits: maternal and embryonic genetic effects, 1046

Plant Extract
Effect of plant extracts and formic acid on the intestinal equilibrium of early-weaned pigs, 3210
Effects of natural plant extracts on protein degradation and fermentation profiles in continuous culture, 3230

Plasma
Effects of combining three fungal phytases with a bacterial phytase on plasma phosphorus status of weanling pigs fed a corn-soy diet, 1725

Evaluation of various inclusion rates of organic zinc either as polysaccharide or proteinate complex on the growth performance, plasma, and excretion of nursery pigs, 1359
Plasma Protein
Comparison of wheat gluten and spray-dried animal plasma in diets for nursery pigs, 3635
Poisoning
An unaddressed issue of agricultural terrorism: A case study on feed security, 3394
Polyethylene Glycol
Ruminal fermentation and degradation patterns, protozoa population and urinary purine derivatives excretion in goats and wethers fed diets based on olive leaves, 3006
Ruminal fermentation and degradation patterns, protozoa population, and urinary purine derivatives excretion in goats and wethers fed diets based on two-stage olive cake: Effect of PEG supply, 2023
Polymerase Chain Reaction
Myosin heavy chain composition of different skeletal muscles in Large White and Meishan pigs, 1931
Polymorphism
Allelic polymorphism in the ovine *DQA1* gene, 8
Associations of polymorphisms in the *Pit-1* gene with growth and carcass traits in Angus beef cattle, 2229
Diversity of the ovine *DQA2* gene, 1553
Polysaccharides
Effects of additional starch or fat in late-gestating high nonstarch polysaccharide diets on litter performance and glucose tolerance in sows, 2964
Performance and individual feed intake characteristics of group-housed sows fed a nonstarch polysaccharides diet ad libitum during gestation over three parities, 1246
Polyunsaturated Fatty Acids
Influence of concentrate composition and forage type on retail packaged beef quality, 2384
Population Mortality
Competing risks analysis of lamb mortality in a terminal sire composite, 2892
Population Structure
Genetic relationships and admixture among sheep breeds from Northern Spain assessed using microsatellites, 2246
Population structure of a colony of dog guides, 2906
Porcine
Dietary protein concentration affects plasma arteriovenous difference of amino acids across the porcine mammary gland, 2953
Effects of elevated temperature in vivo on the maturational and developmental competence of porcine germinal vesicle stage oocytes, 3175
Porcine Reproductive and Respiratory Syndrome Virus
Vitamin E supplementation does not mitigate the acute morbidity effects of porcine reproductive and respiratory syndrome virus in nursery pigs, 1942
Pork
Breed differences and genetic parameters of myoglobin concentration in porcine longissimus muscle, 2264
Early postmortem biochemical factors influence tenderness and water-holding capacity of three porcine muscles, 1195
Effect of supplemental manganese on performance and carcass characteristics of growing-finishing swine, 3267
Improving pork quality by feeding supranutritional concentrations of vitamin D_3, 218
Technical Note: Use of belt grill cookery and slice shear force for assessment of pork longissimus tenderness, 238
Timing of magnesium supplementation administered through drinking water to improve fresh and stored pork quality, 1454
Pork Quality
Effects of dietary lysine and energy density on performance and carcass characteristics of finishing pigs fed ractopamine, 3277
Effects of vitamin C supplementation on plasma ascorbic acid and oxalate concentrations and meat quality in swine, 2004
Portal Absorption
Difference in rates of net portal absorption between crystalline and protein-bound lysine and threonine in growing pigs fed once daily, 1079
Positive Conditioning
Conditioning cattle to graze broom snakeweed (*Gutierrezia sarothrae*), 3100
Postmortem
Effect of supplemental vitamin D_3 concentration on concentrations of calcium, phosphorus, and magnesium relative to protein in subcellular components of the longissimus and the distribution of calcium within longissimus muscle of beef steers, 2742
Postmortem proteolysis is reduced in transgenic mice over-expressing calpastatin, 794
Postnatal Period
Viability of Iberian × Meishan F_2 newborn pigs: I. Analysis of physiological and vitality variables, 1919
Postweaning Colibacillosis
Effect of diet composition on postweaning colibacillosis in piglets, 2364
Postweaning Gain
Hierarchical Bayes multiple-breed inference with an application to genetic evaluation of a Nelore-Hereford population, 1589
Poultry By-Product
The effects of poultry meal source and ash level on nursery pig performance, 2750
Poultry Meal
Evaluation of a rendered poultry mortality–soybean meal product as a supplemental protein source for pig diets, 1071
Poultry Mortality Disposal
Evaluation of a rendered poultry mortality–soybean meal product as a supplemental protein source for pig diets, 1071
Preadipocyte
Adipogenesis: Usefulness of in vitro and in vivo experimental models, 905
Preantral Follicle
Effect of epidermal growth factor and insulin-like growth factor I on porcine preantral follicular growth, antrum formation, and stimulation of granulosal cell proliferation and suppression of apoptosis in vitro, 1967
Prediction
Evaluation of procedures to predict fat-free lean in swine carcasses, 2428
Mechanical probes can predict tenderness of cooked beef longissimus using uncooked measurements, 2077
Prediction Equation
Prediction of nutritive values in grass silages: II. Degradability of nitrogen and dry matter using digestibility, chemical composition, and fermentation data, 1380
Prediction of nutritive values in grass silages: I. Nutrient digestibility and energy concentrations using nutrient compositions and fermentation characteristics, 1367
Prediction Models
Site and extent of digestion and amino acid flow to the small intestine in beef cattle consuming limited amounts of forage, 1146
Pregnancy
Conceptus and maternal responses to increased feed intake during early gestation in pigs, 3154
Effect of addition of a progesterone intravaginal insert to a timed insemination protocol using estradiol cypionate on ovulation rate, pregnancy rate, and late embryonic loss in lactating dairy cows, 3508
Effect of dietary restriction, pregnancy, and fetal type on intestinal cellularity and vascularity in Columbia and Romanov ewes, 3024
Long-term, but not short-term, treatment with somatotropin during pregnancy in inderfed pigs increases the body size of progeny at birth, 93
Plasma hormones and metabolites in Piedmontese cows during late pregnancy: Relationships with calf birth weight, 438
The effect of dietary restriction, pregnancy, and fetal type in different ewe types on fetal weight, maternal body weight, and visceral organ mass in ewes, 1826
Pregnancy Rates
Methods to reduce or eliminate detection of estrus in a melengestrol acetate-$PGF_{2\alpha}$ protocol for synchronization of estrus in beef heifers, 3071
Prenatal Survival
The effect of divergent selection for uterine capacity on prenatal survival in rabbits: Maternal and embryonic genetic effects, 68
Prepubertal Females
Fertilization and blastocyst development in oocytes obtained from prepubertal and adult pigs, 102
Impacts of dietary protein level and feed restriction during prepuberty on mammogenesis in gilts, 2343

Preweaning
Preweaning efficiency for mature cows of breed crosses from tropically adapted *Bos indicus* and *Bos taurus* and unadapted *Bos taurus* breeds, 1876
Preweaning Survival
Viability of Iberian × Meishan F_2 newborn pigs. II. Survival analysis up to weaning, 1925
Probiotics
Effects of a twin strain of *Saccharomyces cerevisiae* live cells on mixed ruminal microorganism fermentation in vitro, 1847
Production
Genetic correlations between reproduction and production traits in swine, 3458
Morbidity effects on productivity and profitability of stocker cattle grazing in the Southern Plains, 2773
Production Traits
Genetic correlation between serum insulin-like growth factor-1 concentration and performance and meat quality traits in Duroc pigs, 994
Productive Life
Evaluating longevity of composite beef females using survival analysis techniques, 860
Profitability
Morbidity effects on productivity and profitability of stocker cattle grazing in the Southern Plains, 2773
Progeny Design
Quantitative trait loci analysis for growth and carcass traits in a half-sib family of purebred Japanese Black (Wagyu) cattle, 3415
Progesterone
Effect of addition of a progesterone intravaginal insert to a timed insemination protocol using estradiol cypionate on ovulation rate, pregnancy rate, and late embryonic loss in lactating dairy cows, 3508
Progestin
Ability of intravaginal progesterone inserts and melengestrol acetate to induce estrous cycles in postpartum beef cows, 695
A comparison of progestin-based protocols to synchronize estrus in postpartum beef cows, 1016
Follicular dynamics and steroid profiles in cows during and after treatment with progestin-based protocols for synchronization of estrus, 1022
Prolificacy
Genetic associations of prolificacy with performance, carcass, meat quality, and leg conformation traits in the Finnish Landrace and Large White pig populations, 2301
Proportional Hazards
Viability of Iberian × Meishan F_2 newborn pigs. II. Survival analysis up to weaning, 1925
Prostaglandin
Inhibition of intrafollicular PGE_2 synthesis and ovulation following ultrasound-mediated intrafollicular injection of the selective cyclooxygenase-2 inhibitor NS-398 in cattle, 1656
Synchronization of estrus in postpartum beef cows and virgin heifers using combinations of melengestrol acetate, GnRH, and $PGF_{2\alpha}$, 867
Prostaglandin-$F_{2\alpha}$
Semen characteristics and libido in boars treated repeatedly with $PGF_{2\alpha}$, 1494
Protein
A mechanistic model for predicting the nutrient requirements and feed biological values for sheep, 149
Effect of energy source and ruminally degradable protein addition on performance of lactating beef cows and digestion characteristics of steers, 2667
Effects of *Sapindus saponaria* fruits on ruminal fermentation and duodenal nitrogen flow of sheep fed a tropical grass diet with and without legume, 1392
Effects of supplemental protein type on intake, nitrogen balance, and site, and extent of digestion in whiteface wethers consuming low-quality grass hay, 3567
Growth and compositional changes of fetal tissues in pigs, 2534
Influence of early postmortem protein oxidation on beef quality, 785
Pancreatic exocrine secretion and plasma concentration of some gastrointestinal hormones in response to abomasal infusion of starch hydrolyzate and/or casein, 1781
Protein and lipid sources affect cholesterol concentrations of juvenile Pacific white shrimp, *Litopenaeus vannamei* (Boone), 1136
Source and level of supplemental protein for growing lambs, 3237
The relationship of average backfat thickness of feedlot steers to performance and relative efficiency of fat and protein retention, 3366
Protein-Bound Amino Acids
Difference in rates of net portal absorption between crystalline and protein-bound lysine and threonine in growing pigs fed once daily, 1079
Protein Degradation
Effects of natural plant extracts on protein degradation and fermentation profiles in continuous culture, 3230
Protein Deposition
Effects of energy intake and body weight on physical and chemical body composition in growing entire male pigs, 109
Protein Intake
Impacts of dietary protein level and feed restriction during prepuberty on mammogenesis in gilts, 2343
Protein Source
Effects of crude protein concentration and degradability on performance, carcass characteristics, and serum urea nitrogen concentrations in finishing beef steers, 2705
The effects of poultry meal source and ash level on nursery pig performance, 2750
Protein Utilization
High dietary phytase levels maximize phytate-phosphorus utilization but do not affect protein utilization in chicks fed phosphorus- or amino acid-deficient diets, 1100
Proteolysis
Compensatory growth improves meat tenderness in gilts but not in barrows, 3617
Early postmortem biochemical factors influence tenderness and water-holding capacity of three porcine muscles, 1195
Indicators of tenderization are detectable by 12 h postmortem in ovine longissimus, 1428
Postmortem proteolysis is reduced in transgenic mice over-expressing calpastatin, 794
Variation in palatability and biochemical traits within and among eleven beef muscles, 534
Protozoa
Effects of a twin strain of *Saccharomyces cerevisiae* live cells on mixed ruminal microorganism fermentation in vitro, 1847
Effects of *Sapindus saponaria* fruits on ruminal fermentation and duodenal nitrogen flow of sheep fed a tropical grass diet with and without legume, 1392
Ruminal fermentation and degradation patterns, protozoa population and urinary purine derivatives excretion in goats and wethers fed diets based on olive leaves, 3006
Ruminal fermentation and degradation patterns, protozoa population, and urinary purine derivatives excretion in goats and wethers fed diets based on two-stage olive cake: Effect of PEG supply, 2023
Puberty
Chronic administration of recombinant ovine leptin in growing beef heifers: Effects on secretion of LH, metabolic hormones, and timing of puberty, 2930
Lack of an association between plasma follicle-stimulating hormone concentrations and ovarian weight in prepubertal gilts, 472
Purine Derivatives
Ruminal fermentation and degradation patterns, protozoa population and urinary purine derivatives excretion in goats and wethers fed diets based on olive leaves, 3006
Ruminal fermentation and degradation patterns, protozoa population, and urinary purine derivatives excretion in goats and wethers fed diets based on two-stage olive cake: Effect of PEG supply, 2023

Q

Quality
Breed differences and genetic parameters of myoglobin concentration in porcine longissimus muscle, 2264
Characterization of biological types of cattle (Cycle VI): Carcass, yield, and longissimus palatability traits, 1177
Improving pork quality by feeding supranutritional concentrations of vitamin D_3, 218

Influence of early postmortem protein oxidation on beef quality, 785
The accuracy and repeatability of untrained laboratory consumer panelists in detecting differences in beef longissimus tenderness, 557
Timing of magnesium supplementation administered through drinking water to improve fresh and stored pork quality, 1454
Quality Control
Technical note: Comparison of Raman, mid, and near infrared spectroscopy for predicting the amino acid content in animal meals, 2596
Quality Grade
Characterization of Certified Angus Beef steaks from the round, loin, and chuck, 1437
Quantitative Trait Loci
A genome scan for quantitative trait loci and imprinted regions affecting reproduction in pigs, 3421
Assessment of positional candidate genes *myf5* and *igf1* for growth on bovine chromosome 5 in commercial lines of*Bos taurus*, 1
Characterization of quantitative trait loci for growth and meat quality in a cross between commercial breeds of swine, 2213
Identification and fine mapping of quantitative trait loci for backfat on bovine chromosomes 2, 5, 6, 19, 21, and 23 in a commercial line of *Bos taurus*, 967
Identification and fine mapping of quantitative trait loci for growth traits on bovine chromosomes 2, 6, 14, 19, 21, and 23 within one commercial line of *Bos taurus*, 3405
Quantitative trait loci analysis for growth and carcass traits in a half-sib family of purebred Japanese Black (Wagyu) cattle, 3415
Quinolizidine Alkaloids
The effect of body condition on disposition of alkaloids from silvery lupine (*Lupinus argenteus* Pursh) in sheep, 2798

R

Rabbit
Elliptical selection experiment for the estimation of genetic parameters of the growth rate and feed conversion ratio in rabbits, 654
The effect of divergent selection for uterine capacity on fetal and placental development at term in rabbits: maternal and embryonic genetic effects, 1046
The effect of divergent selection for uterine capacity on prenatal survival in rabbits: Maternal and embryonic genetic effects, 68
The effect of selection for growth rate and slaughter age on carcass composition and meat quality traits in rabbits, 3138
Ractopamine
Effect of a ractopamine feeding program on growth performance and carcass composition in finishing pigs, 2474
Effects of dietary lysine and energy density on performance and carcass characteristics of finishing pigs fed ractopamine, 3277
Response of barrows to space allocation and ractopamine, 3373
The effect of dietary ractopamine concentration and duration of feeding on growth performance, carcass characteristics, and meat quality of finishing pigs, 3245
Raffinose
Challenges and opportunities in the analysis of raffinose oligosaccharides, pentosans, phytate, and glucosinolates, 319
Ram Breeds
Evaluation of Dorset, Finnsheep, Romanov, Texel, and Montadale breeds of sheep: III. Wool characteristics of F_1 ewes, 2293
Rams
Testosterone and luteinizing hormone responses to naloxone help predict sexual performance in rams, 3380
Rancidity
Effects of rancidity and free fatty acids in choice white grease on growth performance and nutrient digestibility in weanling pigs, 2937
Random Regression
Constructing covariance functions for random regression models for growth in Gelbvieh beef cattle, 1564
Genetic parameters for indicators of host resistance to parasites from weaning to hogget age in Merino sheep, 2852
Random Regression Models
Use of structured antedependence models for the genetic analysis of growth curves, 3465
Reaction Norm
Genotype × environment interactions and genetic parameters for fecal egg count and production traits of Merino sheep, 2840
Reaction Time
Effect of changing female stimulus on intensive semen collection in young Murciano-Granadina male goats, 1641
Receiving Calves
Effects of dietary energy and starch concentrations for newly received feedlot calves: II. Acute-phase protein response, 845
Relative Bioavailability
Bioefficacy of L-lysine sulfate compared to feed-grade L-lysine·HCl in young pigs, 2610
Repeatability
Computer image analysis for measuring lean and fatty areas in cross-sectioned dry-cured hams, 808
Reproducibility
Computer image analysis for measuring lean and fatty areas in cross-sectioned dry-cured hams, 808
Reproduction
A genome scan for quantitative trait loci and imprinted regions affecting reproduction in pigs, 3421
A regional evaluation of chromium tripicolinate supplementation of diets fed to reproducing sows, 2972
A simulation exercise to teach principles of bovine reproductive management, 1543
Comparison of target breeding weight and breeding date for replacement beef heifers and effects on subsequent reproduction and calf performance, 3094
Effect of Cu, Zn, and Mn supplementation and source on reproduction, mineral status, and performance in grazing beef cattle over a two-year period, 2375
Effect of divergent selection for testosterone production on testicular morphology and daily sperm production in boars, 2259
Effects of additional starch or fat in late-gestating high nonstarch polysaccharide diets on litter performance and glucose tolerance in sows, 2964
Estimation of (co)variance components for reproductive traits in Angus beef cattle divergently selected for blood serum IGF-I concentration, 2285
Evaluation of gene expression in pigs selected for enhanced reproduction using differential display PCR: II. Anterior pituitary, 32
Genetic correlations between reproduction and production traits in swine, 3458
Long-term effects of dietary organic and inorganic selenium sources and levels on reproducing sows and their progeny, 1343
Performance and individual feed intake characteristics of group-housed sows fed a nonstarch polysaccharides diet ad libitum during gestation over three parities, 1246
Performance of mouse lines divergently selected for heat loss when exposed to different environmental temperatures. I. Reproductive performance, pup survival, and metabolic hormones, 2876
Responses to 19 generations of litter size selection in the Nebraska Index line. I. Reproductive responses estimated in pure line and crossbred litters, 1000
Reproductive Cycle
Development of a model for inducing transient insulin resistance in the mare: Preliminary implications regarding the estrous cycle, 2321
Reproductive Hormones
Effects of feed restriction on reproductive and metabolic hormones in ewes, 2548
Reproductive Performance
Intermittent suckling: Effects on piglet and sow performance before and after weaning, 405
Reproductive Traits
Evaluation of Dorset, Finnsheep, Romanov, Texel, and Montadale breeds of sheep: II. Reproduction of F_1 ewes in fall mating seasons, 1280
Requirement
Isoleucine requirement for late-finishing (87 to 100 kg) pigs, 1334
Residues
Supplemental vitamin D_3 concentration and biological type of steers: II. Tenderness, quality, and residues of beef, 2092
Resistin
The adipocyte as an endocrine cell, 935
Resource Allocation
A resource allocation model describing consequences of artificial selection under metabolic stress, 973

Restricted Best Linear Unbiased Prediction
A method of computing restricted best linear unbiased prediction of breeding values for some animals in a population, 2253
Restricted Feeding
Impacts of dietary protein level and feed restriction during prepuberty on mammogenesis in gilts, 2343
Restricted Inbreeding
Maximizing genetic gain over multiple generations with quantitative trait locus selection and control of inbreeding, 1305
Retained Placenta
Effect of inbreeding on the incidence of retained placenta in Friesian horses, 982
Ribose
Effects of ribose supplementation on selected metabolic measurements and performance in maximally exercising Thoroughbreds, 619
Rice
Effect of diet composition on postweaning colibacillosis in piglets, 2364
Rice Mill Feed
Rice mill feed as a replacement for broiler litter in diets for growing beef cattle, 2193
Risk
Evaluating longevity of composite beef females using survival analysis techniques, 860
Rotational Stocking
Productivity and hay requirements of beef cattle in a Midwestern year-round grazing system, 2503
Rumen
Energy requirements of cattle for standing and for ingestion, estimated by a ruminal emptying technique, 129
Flow paths of plant tissue residues and digesta through gastrointestinal segments in Spanish goats and methodological considerations, 508
Ruminal Fermentation
Effect of fiber-based creep feed on intake, digestion, ruminal fermentation, and microbial efficiency in nursing calves, 3560
Effect of field pea-based creep feed on intake, digestibility, ruminal fermentation, and performance by nursing calves grazing native range in western North Dakota, 3589
Effect of imbalance between energy and nitrogen supplies on microbial protein synthesis and nitrogen metabolism in growing double-muscled Belgian Blue bulls, 1818
Effect of Japanese horseradish oil on methane production and ruminal fermentation in vitro and in steers, 1839
Effects of a twin strain of *Saccharomyces cerevisiae* live cells on mixed ruminal microorganism fermentation in vitro, 1847
Effects of natural plant extracts on protein degradation and fermentation profiles in continuous culture, 3230
In vitro effects of individual fatty acids on protozoal numbers and on fermentation products in ruminal fluid from cattle fed a high-concentrate, barley-based diet, 2693
Ruminal Inoculum
Technical note: A proposed method to determine the extent of degradation of a feed in the rumen from the degradation profile obtained with the in vitro gas production technique using feces as the inoculum, 733
Ruminally Degradable Protein
Effect of dietary crude protein level and degradability on ruminal fermentation and nitrogen utilization in lactating dairy cows, 3219
Ruminal pH
Effect of feed delivery fluctuations and feeding time on ruminal acidosis, growth performance, and feeding behavior of feedlot cattle, 3357
Ruminal Protozoa
In vitro effects of individual fatty acids on protozoal numbers and on fermentation products in ruminal fluid from cattle fed a high-concentrate, barley-based diet, 2693
Ruminants
Pancreatic exocrine secretion and plasma concentration of some gastrointestinal hormones in response to abomasal infusion of starch hydrolyzate and/or casein, 1781

S

Safflower
High linoleic acid safflower seed supplementation for gestating ewes: Effects on ewe performance, lamb survival, and brown fat stores, 3654
Influence of supplemental cracked high-linoleate or high-oleate safflower seeds on site and extent of digestion in beef cattle, 3577
Salmonella
Effect of dietary mannanoligosaccharide and sodium chlorate on the growth performance, acute-phase response, and bacterial shedding of weaned pigs challenged with *Salmonella enterica* serotype Typhimurium, 397
Salmo trutta
Selection for growth in brown trout increases feed intake capacity without affecting maintenance and growth requirements, 2865
Salt
Self-limiting supplements fed to cattle grazing native mixed-grass prairie in the northern Great Plains, 298
Sanga
Preweaning efficiency for mature cows of breed crosses from tropically adapted *Bos indicus* and *Bos taurus* and unadapted *Bos taurus* breeds, 1876
Saponins
Effects of *Sapindus saponaria* fruits on ruminal fermentation and duodenal nitrogen flow of sheep fed a tropical grass diet with and without legume, 1392
Sarcomere Length
Variation in palatability and biochemical traits within and among eleven beef muscles, 534
Saturated Fatty Acids
Insulin and dexamethasone regulate stearoyl-CoA desaturase mRNA levels and fatty acid synthesis in ovine adipose tissue explants, 231
Seasons
Effects of growth-promoting agents and season on yearling feedlot heifer performance, 2481
Selection
A resource allocation model describing consequences of artificial selection under metabolic stress, 973
Effect of divergent selection for testosterone production on testicular morphology and daily sperm production in boars, 2259
Estimation of (co)variance components for reproductive traits in Angus beef cattle divergently selected for blood serum IGF-I concentration, 2285
Evaluation of gene expression in pigs selected for enhanced reproduction using differential display PCR and human microarrays: I. Ovarian follicles, 17
Evaluation of gene expression in pigs selected for enhanced reproduction using differential display PCR: II. Anterior pituitary, 32
Genetic parameters for six measures of length of productive life and three measures of lifetime production by 6 yr after first calving for Hereford cows, 1912
Genetic response to selection for weaning weight or yearling weight or yearling weight and muscle score in Hereford cattle: Efficiency of gain, growth, and carcass characteristics, 668
Number of calves born, number of calves weaned, and cumulative weaning weight as measures of lifetime production for Hereford cows, 1903
Responses to 19 generations of litter selection in the Nebraska Index line. I. Reproductive responses estimated in pure line and crossbred litters, 1000
Responses to 19 generations of litter size selection in the NE Index line. II. Growth and carcass responses estimated in pure line and crossbred litters, 1895
Selection for growth in brown trout increases feed intake capacity without affecting maintenance and growth requirements, 2865
The effect of divergent selection for uterine capacity on prenatal survival in rabbits: Maternal and embryonic genetic effects, 68
Selenium
Effect of high-selenium wheat on visceral organ mass, and intestinal cellularity and vascularity in finishing beef steers, 1788
Effect of Se on selenoprotein activity and thyroid hormone metabolism in beef and dairy cows and calves, 2995
Effect of supranutritional and organically bound selenium on performance, carcass characteristics, and selenium distribution in finishing beef steers, 1488
Long-term effects of dietary organic and inorganic selenium sources and levels on reproducing sows and their progeny, 1343
Semen
Effect of changing female stimulus on intensive semen collection in young Murciano-Granadina male goats, 1641

Effect of vitamin supplements on some aspects of performance, vitamin status, and semen quality in boars, 626
Semen characteristics and libido in boars treated repeatedly with $PGF_{2\alpha}$, 1494
Semitendinosus
Effects of biological type and dietary fat treatment on factors associated with tenderness: II. Measurements on beef semitendinosus muscle, 779
Sensory
The accuracy and repeatability of untrained laboratory consumer panelists in detecting differences in beef longissimus tenderness, 557
Serial Slaughter
The relationships among body weight, body composition, and intramuscular fat content in steers, 1315
Serum Chemistry
Diet affects nutrient digestibility, hematology, and serum chemistry of senior and weanling dogs, 1713
Serum Urea Nitrogen
Effects of crude protein concentration and degradability on performance, carcass characteristics, and serum urea nitrogen concentrations in finishing beef steers, 2705
Sexing
Characteristics of calves produced with sperm sexed by flow cytometry/cell sorting, 1029
Sex Ratio
Characteristics of calves produced with sperm sexed by flow cytometry/cell sorting, 1029
Sexual Maturity
Fertilization and blastocyst development in oocytes obtained from prepubertal and adult pigs, 102
Sexual Performance
Testosterone and luteinizing hormone responses to naloxone help predict sexual performance in rams, 3380
Sexual Precocity
Additive genetic relationships between heifer pregnancy and scrotal circumference in Nellore cattle, 2519
Shear Force
Association of markers in the bovine *CAPN1* gene with meat tenderness in large crossbred populations that sample influential industry sires, 3474
Evaluation of sampling, cookery, and shear force protocols for objective evaluation of lamb longissimus tenderness, 802
Technical Note: Use of belt grill cookery and slice shear force for assessment of pork longissimus tenderness, 238
Sheep
A bioeconomic approach to derive economic values for pasture-based sheep genetic improvement programs, 1290
Allelic polymorphism in the ovine *DQA1* gene, 8
Balance and serum concentration of biotin in sheep fed alfalfa meal-based diets with increasing level of concentrate, 1165
Competing Risks Analysis of Lamb Mortality in a Terminal Sire Composite, 2892
Differing effects of forage and concentrate diets on the oleic acid and conjugated linoleic acid content of sheep tissues: The role of stearoyl-CoA desaturase, 747
Diversity of the ovine *DQA2* gene, 1553
Effect of dietary restriction, pregnancy, and fetal type on intestinal cellularity and vascularity in Columbia and Romanov ewes, 3024
Effect of nitrogen intake on nitrogen recycling and urea transporter abundance in lambs, 1157
Effects of a quantitative trait locus for muscle hypertrophy from Belgian Texel sheep on carcass conformation and muscularity, 3128
Effects of feed restriction on reproductive and metabolic hormones in ewes, 2548
Effects of supplemental protein type on intake, nitrogen balance, and site, and extent of digestion in whiteface wethers consuming low-quality grass hay, 3567
Evaluation of Dorset, Finnsheep, Romanov, Texel, and Montadale breeds of sheep: IV. Survival, growth, and carcass traits of F_1 lambs, 3144
Genetic parameters for indicators of host resistance to parasites from weaning to hogget age in Merino sheep, 2852
Genetic relationships and admixture among sheep breeds from Northern Spain assessed using microsatellites, 2246
Genotype × environment interactions and genetic parameters for fecal egg count and production traits of Merino sheep, 2840
Growth and carcass characteristics of lambs sired by Dorper and Dorset rams, 1323
Inheritance of fecal egg count and packed cell volume and their relationship with production traits in sheep infected with *Haemonchus contortus*, 1602
Insulin and dexamethasone regulate stearoyl-CoA desaturase mRNA levels and fatty acid synthesis in ovine adipose tissue explants, 231
Nitrogen balance in lambs fed a high-concentrate diet and infused with differing proportions of casein in the rumen and abomasum, 495
Nitrogen balance in lambs fed low-quality brome hay and infused with differing proportions of casein in the rumen and abomasum, 502
Oxidation of glucose, glutamate, and glutamine by isolated ovine enterocytes in vitro is decreased by the presence of other metabolic fuels, 479
Performance of hair sheep composite breeds: Resistance of lambs to *Haemonchus contortus*, 595
Ruminal fermentation and degradation patterns, protozoa population and urinary purine derivatives excretion in goats and wethers fed diets based on olive leaves, 3006
Ruminal fermentation and degradation patterns, protozoa population, and urinary purine derivatives excretion in goats and wethers fed diets based on two-stage olive cake: Effect of PEG supply, 2023
Source and level of supplemental protein for growing lambs, 3237
Soybean oil supplementation of a high-concentrate diet does not affect site and extent of organic matter, starch, neutral detergent fiber, or nitrogen digestion, but influences both ruminal metabolism and intestinal flow of fatty acids in limit-fed lambs, 2985
Testosterone and luteinizing hormone responses to naloxone help predict sexual performance in rams, 3380
The effect of body condition on disposition of alkaloids from silvery lupine (*Lupinus argenteus* Pursh) in sheep, 2798
The effect of dietary restriction, pregnancy, and fetal type in different ewe types on fetal weight, maternal body weight, and visceral organ mass in ewes, 1826
The effects of cadmium in feed, and its amelioration with zinc, on element balances in sheep, 2489
The influence of high-nitrogen forages on the voluntary feed intake of sheep, 1536
Sheep Requirements
A mechanistic model for predicting the nutrient requirements and feed biological values for sheep, 149
Shipping Stress
Morbidity effects on productivity and profitability of stocker cattle grazing in the Southern Plains, 2773
Short-Chain Fatty Acids
In vitro fermentation of various fiber and starch sources by pig fecal inocula, 2615
Short-Duration Grazing
Conditioning cattle to graze broom snakeweed (*Gutierrezia sarothrae*), 3100
Shrimp
Protein and lipid sources affect cholesterol concentrations of juvenile Pacific white shrimp, *Litopenaeus vannamei* (Boone), 1136
Sigmoid Function
Growth rate consists of baseline and systematic deviation components in Thoroughbreds, 1007
Simmental
Evaluation of Simmental carcass EPD estimated using live and carcass data, 661
Simulation
A simulation exercise to teach principles of bovine reproductive management, 1543
Simulation Models
Modeling the effects of stressors on the performance of populations of pigs, 2442
Single-Strand Conformational Polymorphism
Allelic polymorphism in the ovine *DQA1* gene, 8
Diversity of the ovine *DQA2* gene, 1553
Sire Breeds
Evaluation of Dorset, Finnsheep, Romanov, Texel, and Montadale breeds of sheep: II. Reproduction of F_1 ewes in fall mating seasons, 1280

Skeletal Muscle
Effect of heat exposure on uncoupling protein-3 mRNA abundance in porcine skeletal muscle, 3493
Effect of nutrient restriction on calpain and calpastatin content of skeletal muscle from cows and fetuses, 2541
Recruitment and differentiation of intramuscular preadipocytes in stromal-vascular cell cultures derived from neonatal pig semitendinosus muscles, 429
Slaughter Age
The effect of selection for growth rate and slaughter age on carcass composition and meat quality traits in rabbits, 3138
Slaughter Weight
The effects of gender and slaughter weight on the growth performance, carcass traits, and meat quality characteristics of heavy pigs, 526
Small Intestine
Abundance of mRNA encoding for components of the somatotropic axis and insulin receptor in different layers of the jejunum and ileum of neonatal calves, 3181
Effect of dietary restriction, pregnancy, and fetal type on intestinal cellularity and vascularity in Columbia and Romanov ewes, 3024
Social Ethics
Annual Meeting Keynote Address: Animal agriculture and emerging social ethics for animals, 955
Sodium Bicarbonate
Physiological responses in swine treated with water containing sodium bicarbonate as a prophylactic for gastric ulcers, 2757
Sodium Chlorate
Effect of dietary mannanoligosaccharide and sodium chlorate on the growth performance, acute-phase response, and bacterial shedding of weaned pigs challenged with *Salmonella enterica* serotype Typhimurium, 397
Sodium-Dependent Glucose Cotransporter
Influence of abomasal carbohydrates on small intestinal sodium-dependent glucose cotransporter activity and abundance in steers, 3015
Somatotropic Axis
Abundance of mRNA encoding for components of the somatotropic axis and insulin receptor in different layers of the jejunum and ileum of neonatal calves, 3181
The ontogeny of the somatotropic axis in Hereford calves from birth to one year of age and its response to administration of exogenous bovine somatotropin, 1646
Somatotropin
Long-term, but not short-term, treatment with somatotropin during pregnancy in inderfed pigs increases the body size of progeny at birth, 93
The ontogeny of the somatotropic axis in Hereford calves from birth to one year of age and its response to administration of exogenous bovine somatotropin, 1646
Sorghum
Effect of nonwaxy and waxy sorghum on growth, carcass traits, and glucose and insulin kinetics of growing-finishing barrows and gilts, 1699
Sow
A regional evaluation of chromium tripicolinate supplementation of diets fed to reproducing sows, 2972
Comparison of three methods of feeding sows in gestation and the subsequent effects on lactation performance, 3058
Effect of housing system and boar exposure on estrous expression in weaned sows, 3088
Effects of additional starch or fat in late-gestating high nonstarch polysaccharide diets on litter performance and glucose tolerance in sows, 2964
Effects of a novel carbohydrate and protein source on sow performance during lactation, 2392
Genetic analysis of litter size, parturition length, and birth assistance requirements in primiparous sows using a joint linear-threshold animal model, 2528
Genetics of length of productive life and lifetime prolificacy in the Finnish Landrace and Large White pig populations, 3111
Influence of Carnichrome on the energy balance of gestating sows, 2013
Intermittent suckling: Effects on piglet and sow performance before and after weaning, 405
Long-term effects of dietary organic and inorganic selenium sources and levels on reproducing sows and their progeny, 1343
Nucleotides in sow colostrum and milk at different stages of lactation, 1339
Performance and individual feed intake characteristics of group-housed sows fed a nonstarch polysaccharides diet ad libitum during gestation over three parities, 1246
The physical size of gestating sows, 2421
The reproductive performance and factors affecting on-farm application of low-dose intrauterine deposit of semen in sows, 2164
Sow Nursing Vocalizations
Effect of drinker type and sound stimuli on early-weaned pig performance and behavior, 2105
Soybean
Effect of soybean variety and processing on growth performance of young chicks and pigs, 1108
Performance and carcass quality of steers fed different sources of dietary fat, 1794
Performance and carcass quality of steers fed whole raw soybeans at increasing inclusion levels, 725
Soybean Meal
Digestibility of nitrogen and amino acids in soybean meal with added soyhulls, 715
Ileal amino acid digestibilities by pigs fed soybean meals from five major soybean-producing countries, 3198
Source and level of supplemental protein for growing lambs, 3237
Soybean Oilmeal
Comparison of wheat gluten and spray-dried animal plasma in diets for nursery pigs, 3635
Soyhulls
Digestibility of nitrogen and amino acids in soybean meal with added soyhulls, 715
Effect of energy source and ruminally degradable protein addition on performance of lactating beef cows and digestion characteristics of steers, 2667
Soybean hulls as an alternative feed for horses, 1663
Space Allocation
Response of barrows to space allocation and ractopamine, 3373
The effect of space allocation on barrow and gilt performance, 2460
Spermatozoa
The relationship of porcine sperm zone-binding ability to fertility, 452
The reproductive performance and factors affecting on-farm application of low-dose intrauterine deposit of semen in sows, 2164
Sperm
Characteristics of calves produced with sperm sexed by flow cytometry/cell sorting, 1029
Spondylosis Deformans
Prevalence of spondylosis deformans and estimates of genetic parameters for the degree of osteophytes development in Italian Boxer dogs, 85
Spray-Dried Plasma
Spray-dried plasma improves growth performance and reduces inflammatory status of weaned pigs challenged with enterotoxigenic *Escherichia coli* K88, 1764
Spray Drying
Effects of emulsification, fat encapsulation, and pelleting on weanling pig performance and nutrient digestibility, 2601
Sprinkling
Effect of management strategies on reducing heat stress of feedlot cattle: Feed and water intake, 3077
Sprouty
Adipogenesis: Usefulness of in vitro and in vivo experimental models, 905
Stabilized Rice Bran
Evaluation of stabilized rice bran as an ingredient in dry extruded dog diets, 1122
Stachyose
Challenges and opportunities in the analysis of raffinose oligosaccharides, pentosans, phytate, and glucosinolates, 319
Stallion Sperm
Pregnancy rates of mares inseminated with semen cooled for 18 hours then frozen, 690
Starch
Effects of dietary energy and starch concentrations for newly received feedlot calves: I. Growth performance and health, 837
Effects of dietary energy and starch concentrations for newly received feedlot calves: II. Acute-phase protein response, 845
Glycemic index of cracked corn, oat groats and rolled barley in horses, 2623

Influence of abomasal carbohydrates on small intestinal sodium-dependent glucose cotransporter activity and abundance in steers, 3015
In vitro fermentation of various fiber and starch sources by pig fecal inocula, 2615
Pancreatic exocrine secretion and plasma concentration of some gastrointestinal hormones in response to abomasal infusion of starch hydrolyzate and/or casein, 1781
Starch Digestion
Effect of diet composition and feeding pattern on the prececal digestibility of starches from diverse botanical origins measured with the mobile nylon bag technique in horses, 3625
Starting Pigs
Isoleucine requirements and ratios in starting (6 to 11 kg) pigs, 2333
Statistical Bias
Evaluation of procedures to predict fat-free lean in swine carcasses, 2428
Steam Flaking
Effects of concentration and composition of wet corn gluten feed in steam-flaked corn-based finishing diets, 2718
Stearoyl-CoA Desaturase
Differing effects of forage and concentrate diets on the oleic acid and conjugated linoleic acid content of sheep tissues: The role of stearoyl-CoA desaturase, 747
Insulin and dexamethasone regulate stearoyl-CoA desaturase mRNA levels and fatty acid synthesis in ovine adipose tissue explants, 231
Steer
Effect of energy source and ruminally degradable protein addition on performance of lactating beef cows and digestion characteristics of steers, 2667
Effect of high-selenium wheat on visceral organ mass, and intestinal cellularity and vascularity in finishing beef steers, 1788
Effect of supranutritional and organically bound selenium on performance, carcass characteristics, and selenium distribution in finishing beef steers, 1488
Effects of increasing level of supplemental barley on forage intake, digestibility, and ruminal fermentation in steers fed medium quality grass hay, 3662
Performance and carcass quality of steers fed different sources of dietary fat, 1794
Performance and carcass quality of steers fed whole raw soybeans at increasing inclusion levels, 725
Self-limiting supplements fed to cattle grazing native mixed-grass prairie in the northern Great Plains, 298
Technical Note: Effect of corticotropin-releasing hormone on adrenocorticotropic hormone and cortisol in steers, 1952
Use of ultrasound to predict body composition changes in steers at 100 and 65 days before slaughter, 1621
Stereotypies
Behavior and reproductive performance by stalled breeding females on a commercial swine farm, 1482
Steroids
Ovarian follicular development in cattle selected for twin ovulations and births, 459
Stillbirths
Genetic parameters for calving difficulty, stillbirth, and birth weight for Hereford and Charolais at first and later parities, 375
Stochastic Simulation
A resource allocation model describing consequences of artificial selection under metabolic stress, 973
Stocker
Effects of different grazing and feeding periods on performance and carcass traits of beef steers, 292
Stockpiled Forage
Productivity and hay requirements of beef cattle in a Midwestern year-round grazing system, 2503
Storage
Pregnancy rates of mares inseminated with semen cooled for 18 hours then frozen, 690
Straw
Evaluation of perennial ryegrass straw as a forage source for ruminants, 2175
Stress
Effect of chronic clenbuterol administration and exercise training on immune function in horses, 3500
Effect of supplemental tryptophan, vitamin E, and a herbal product on responses by pigs to vibration, 2410
Effects of dietary energy and starch concentrations for newly received feedlot calves: I. Growth performance and health, 837
Modeling the effects of stressors on the performance of populations of pigs, 2442
Preslaughter stress and muscle energy largely determine pork quality at two commercial processing plants, 1401
Rapid chilling cannot prevent inferior pork quality caused by high preslaughter stress, 551
Technical Note: Effect of corticotropin-releasing hormone on adrenocorticotropic hormone and cortisol in steers, 1952
Stressor
Effects of handling intensity and live weight on blood acid-base status in finishing pigs, 2405
Structured Antedependence Models
Use of structured antedependence models for the genetic analysis of growth curves, 3465
Stunning
Preslaughter stress and muscle energy largely determine pork quality at two commercial processing plants, 1401
Subcutaneous Fat
Effects of barley variety fed to steers on carcass characteristics and color of meat, 2087
Subprimal Yield
Development and validation of equations utilizing Lamb Vision System (LVS) output to predict lamb carcass fabrication yields, 2069
Subtropics
Maternal and reproductive performance of Brahman × Angus, Senepol × Angus, and Tuli × Angus cows in the subtropics, 2764
Suckling
Intermittent suckling: Effects on piglet and sow performance before and after weaning, 405
Suffolk
Mapping of quantitative trait loci for growth and carcass traits in commercial sheep populations, 2234
Sunflower Seeds
Value of sunflower seed in finishing diets of feedlot cattle, 2679
Superoxide Dismutase
Use of chemical characteristics to predict the relative bioavailability of supplemental organic manganese sources for broilers, 2352
Supplement
Effect of fiber-based creep feed on intake, digestion, ruminal fermentation, and microbial efficiency in nursing calves, 3560
Effect of field pea level on intake, digestion, microbial efficiency, ruminal fermentation, and in situ disappearance in beef steers fed forage-based diets, 2185
Effects of increasing level of supplemental barley on forage intake, digestibility, and ruminal fermentation in steers fed medium quality grass hay, 3662
Self-limiting supplements fed to cattle grazing native mixed-grass prairie in the northern Great Plains, 298
Supplementation
Daily and alternate day supplementation of urea or biuret to ruminants consuming low-quality forage: I. Effects on cow performance and the efficiency of nitrogen use in wethers, 1508
Daily and alternate-day supplementation of urea or biuret to ruminants consuming low-quality forage: II. Effects on site of digestion and microbial efficiency in steers, 1518
Daily and alternate-day supplementation of urea or biuret to ruminants consuming low-quality forage: III. Effects on ruminal fermentation characteristics in steers, 1528
Effect of forage quality on digestion and performance responses of cattle to supplementation with cooked molasses blocks, 487
Effect of supplementation frequency and supplemental urea level on dormant, tallgrass-prairie hay intake and digestion by steers and prepartum performance of beef cows grazing dormant, tallgrass-prairie, 884
Effect of supplementation of xylanase and phospholipase to a wheat-based diet for weanling pigs on nutrient digestibility and concentrations of microbial metabolites in ileal digesta and feces, 2647
High linoleic acid safflower seed supplementation for gestating ewes: Effects on ewe performance, lamb survival, and brown fat stores, 3654

Influence of supplemental cracked high-linoleate or high-oleate safflower seeds on site and extent of digestion in beef cattle, 3577
Interactions between supplement energy source and tall fescue hay maturity on forage utilization by beef steers, 307
Nitrogen balance in lambs fed low-quality brome hay and infused with differing proportions of casein in the rumen and abomasum, 502
Nonstructural carbohydrate supplementation of yearling heifers and range beef cows, 2724
Ruminal and host adaptations to changes in frequency of protein supplementation, 895
Surveys
Assessing attitudes toward farm animal welfare: A national survey of animal science faculty members, 2806
Survival
Evaluating longevity of composite beef females using survival analysis techniques, 860
Evaluation of Dorset, Finnsheep, Romanov, Texel, and Montadale breeds of sheep: IV. Survival, growth, and carcass traits of F_1 lambs, 3144
High linoleic acid safflower seed supplementation for gestating ewes: Effects on ewe performance, lamb survival, and brown fat stores, 3654
Phenotypic relationships between longevity, type traits, and production in Chianina beef cattle, 1572
Survival Analysis
Competing Risks Analysis of Lamb Mortality in a Terminal Sire Composite, 2892
Suspensory Score
Teat scores in first-parity Gelbvieh cows: Relationship with suspensory score and calf growth traits, 2277
Swainsonine
The toxicosis of *Embellisia* fungi from locoweed (*Oxytropis lambertii*) is similar to locoweed toxicosis in rats, 2169
Swine
A mixed-model approach for the analysis of cDNA microarray gene expression data from extreme-performing pigs after infection with *Actinobacillus pleuropneumoniae*, 1261
Characterization of quantitative trait loci for growth and meat quality in a cross between commercial breeds of swine, 2213
Copper proteinate in weanling pig diets for enhancing growth performance and reducing fecal copper excretion comapred with copper sulfate, 1062
Dietary supplementation with phosphorylated mannans improves growth response and modulates immune function of weanling pigs, 1882
Effect of phosphorylated mannans and pharmacological additions of zinc oxide on growth and immunocompetence of weanling pigs, 581
Effect of supplemental manganese on performance and carcass characteristics of growing-finishing swine, 3267
Effects of dietary lysine and energy density on performance and carcass characteristics of finishing pigs fed ractopamine, 3277
Effects of emulsification, fat encapsulation, and pelleting on weanling pig performance and nutrient digestibility, 2601
Effects of vitamin C supplementation on plasma ascorbic acid and oxalate concentrations and meat quality in swine, 2004
Growth performance of nursery pigs fed diets containing increasing levels of corn distiller's dried grains with solubles originating from a modern Midwestern ethanol plant, 122
Hormonal regulation of leptin and leptin receptor expression in porcine subcutaneous adipose tissue, 3486
Ileal amino acid digestibilities by pigs fed soybean meals from five major soybean-producing countries, 3198
Increasing weaning age improves pig performance in a multisite production system, 1499
Lack of an association between plasma follicle-stimulating hormone concentrations and ovarian weight in prepubertal gilts, 472
Physiological responses in swine treated with water containing sodium bicarbonate as a prophylactic for gastric ulcers, 2757
The effect of dietary ractopamine concentration and duration of feeding on growth performance, carcass characteristics, and meat quality of finishing pigs, 3245
Swine Manure
Effect of aluminum chloride and dietary phytase on relative ammonia losses from swine manure, 605
Synchronization
Effect of imbalance between energy and nitrogen supplies on microbial protein synthesis and nitrogen metabolism in growing double-muscled Belgian Blue bulls, 1818
Methods to reduce or eliminate detection of estrus in a melengestrol acetate-$PGF_{2\alpha}$ protocol for synchronization of estrus in beef heifers, 3071

T

Tall Fescue
Effects of short-term early gestational exposure to endophyte-infected tall fescue diets on plasma 3,4-dihydroxyphenyl acetic acid and fetal development in mares, 2919
Target Weights
Comparison of target breeding weight and breeding date for replacement beef heifers and effects on subsequent reproduction and calf performance, 3094
Taste
Ionophore taste preferences of dairy heifers, 3314
Teaching
A simulation exercise to teach principles of bovine reproductive management, 1543
Teat Score
Teat scores in first-parity Gelbvieh cows: Relationship with suspensory score and calf growth traits, 2277
Temperature
Effects of elevated temperature in vivo on the maturational and developmental competence of porcine germinal vesicle stage oocytes, 3175
Tenderization
Oxidative environments decrease tenderization of beef steaks through inactivation of μ-calpain, 3254
Tenderness
Characterization of biological types of cattle (Cycle VI): Carcass, yield, and longissimus palatability traits, 1177
Characterization of Certified Angus Beef steaks from the round, loin, and chuck, 1437
Consumer acceptance of calcium chloride-marinated top loin steaks, 1471
Early postmortem biochemical factors influence tenderness and water-holding capacity of three porcine muscles, 1195
Effects of biological type and dietary fat treatment on factors associated with tenderness: II. Measurements on beef semitendinosus muscle, 779
Effects of biological type and dietary fat treatment on factors associated with tenderness: I. Measurements on beef longissimus muscle, 770
Evaluation of sampling, cookery, and shear force protocols for objective evaluation of lamb longissimus tenderness, 802
Feeding 25-hydroxyvitamin D_3 to improve beef tenderness, 1410
Influence of Ceftiofur sodium biobullet administration on tenderness and tissue damage in beef round muscle, 3308
Influence of early postmortem protein oxidation on beef quality, 785
Influence of quality classification, aging period, blade tenderization, and endpoint cooking temperature on cooking characteristics and tenderness of beef gluteus medius steaks, 1863
Mechanical probes can predict tenderness of cooked beef longissimus using uncooked measurements, 2077
New alleles in calpastatin gene are associated with meat quality traits in pigs, 2829
Supplemental vitamin D_3 concentration and biological type of steers: II. Tenderness, quality, and residues of beef, 2092
Technical Note: Use of belt grill cookery and slice shear force for assessment of pork longissimus tenderness, 238
The accuracy and repeatability of untrained laboratory consumer panelists in detecting differences in beef longissimus tenderness, 557
The use of vitamin D_3 and its metabolites to improve beef tenderness, 242
Utilization of beef from different cattle phenotypes to produce a guaranteed tender beef product, 1190
Variation in palatability and biochemical traits within and among eleven beef muscles, 534
Vitamin D_3 supplementation of cull cows: Effects on longissimus and semiterdinosus muscle tenderness, 225

Terrorism
An unaddressed issue of agricultural terrorism: A case study on feed security, 3394
Testosterone
Testosterone and luteinizing hormone responses to naloxone help predict sexual performance in rams, 3380
Testosterone Production
Effect of divergent selection for testosterone production on testicular morphology and daily sperm production in boars, 2259
Texel
Mapping of quantitative trait loci for growth and carcass traits in commercial sheep populations, 2234
Thoroughbred
Effects of ribose supplementation on selected metabolic measurements and performance in maximally exercising Thoroughbreds, 619
Growth rate consists of baseline and systematic deviation components in Thoroughbreds, 1007
Threonine
Difference in rates of net portal absorption between crystalline and protein-bound lysine and threonine in growing pigs fed once daily, 1079
Threshold Models
Genetic evaluation of calving to first insemination using natural and artificial insemination mating data, 362
Genetics of osteochondral disease and its relationship with meat quality and quantity, growth, and feed conversion traits in pigs, 3118
Thyroidectomy
Effect of hypothyroidism on the blood lipid response to higher dietary fat intake in mares, 2640
Thyroid Hormone Receptor
Effect of heat exposure on uncoupling protein-3 mRNA abundance in porcine skeletal muscle, 3493
Thyroid Hormones
Effect of Se on selenoprotein activity and thyroid hormone metabolism in beef and dairy cows and calves, 2995
Tilmicosin Phosphate
Effect of simulated ambient particulate matter exposure on performance, rectal temperature, and leukocytosis of young Spanish goats with or without tilmicosin phosphate, 1219
Timed Artificial Insemination
Effect of addition of a progesterone intravaginal insert to a timed insemination protocol using estradiol cypionate on ovulation rate, pregnancy rate, and late embryonic loss in lactating dairy cows, 3508
Titanium Dioxide
Technical Note: A procedure for preparation and quantitative analysis of samples for titanium dioxide, 179
α-Tocopherol
Antioxidant supplementation and subsequent oxidative stress of horses during an 80-km endurance race, 588
Total Avidin-Binding Substances
Balance and serum concentration of biotin in sheep fed alfalfa meal-based diets with increasing level of concentrate, 1165
Toxicity
The effects of cadmium in feed, and its amelioration with zinc, on element balances in sheep, 2489
Toxicosis
Effects of endophyte-infected tall fescue on indicators of thermal status and growth in Hereford and Senepol steers, 634
Toxic Plants
The effect of body condition on disposition of alkaloids from silvery lupine (*Lupinus argenteus* Pursh) in sheep, 2798
Trace Minerals
Effect of Cu, Zn, and Mn supplementation and source on reproduction, mineral status, and performance in grazing beef cattle over a two-year period, 2375
Effects of microbial phytase, low calcium and phosphorus, and removing the dietary trace mineral premix on carcass traits, pork quality, plasma metabolites, and tissue mineral content in growing-finishing pigs, 2630
Trans-Fatty Acids
Soybean oil supplementation of a high-concentrate diet does not affect site and extent of organic matter, starch, neutral detergent fiber, or nitrogen digestion, but influences both ruminal metabolism and intestinal flow of fatty acids in limit-fed lambs, 2985
Transcription Factors
Recruitment and differentiation of intramuscular preadipocytes in stromal-vascular cell cultures derived from neonatal pig semitendinosus muscles, 429
Transferrin
Effects of dietary iron supplementation on growth performance, hematological status, and whole-body mineral concentrations of nursery pigs, 3189
Transgenic Corn
Performance of growing-finishing pigs fed diets containing Roundup Ready corn (event nk603), a nontransgenic genetically similar corn, or conventional corn lines, 571
Transgenic Mice
Postmortem proteolysis is reduced in transgenic mice over-expressing calpastatin, 794
Transgenics
Nutritional value of a corn containing a glutamate dehydrogenase gene for growing pigs , 1693
Transit Time
Effect of diet composition and feeding pattern on the prececal digestibility of starches from diverse botanical origins measured with the mobile nylon bag technique in horses, 3625
Transport Shrink
Growing and finishing performance of steers when fed recycled poultry bedding during the growing period, 3038
Trenbolone Acetate
Effect of flax supplementation and growth promotants on lipoprotein lipase and glycogenin messenger RNA concentrations in finishing cattle, 1868
Tropical Forage
Effects of *Sapindus saponaria* fruits on ruminal fermentation and duodenal nitrogen flow of sheep fed a tropical grass diet with and without legume, 1392
Troponin-T
Effects of biological type and dietary fat treatment on factors associated with tenderness: I. Measurements on beef longissimus muscle, 770
Feeding 25-hydroxyvitamin D_3 to improve beef tenderness, 1410
The use of vitamin D_3 and its metabolites to improve beef tenderness, 242
Trypsin Inhibitor
Effect of soybean variety and processing on growth performance of young chicks and pigs, 1108
Tryptophan
Chronic lung inflammation affects plasma amino acid concentrations in pigs, 1091
Effect of supplemental tryptophan, vitamin E, and a herbal product on responses by pigs to vibration, 2410
Specific dietary selection for tryptophan by the piglet, 1115
Turnover
Flow paths of plant tissue residues and digesta through gastrointestinal segments in Spanish goats and methodological considerations, 508
Twins
Ovarian follicular development in cattle selected for twin ovulations and births, 459
Twin Strain of *Saccharomyces cerevisiae*
Effects of a twin strain of *Saccharomyces cerevisiae* live cells on mixed ruminal microorganism fermentation in vitro, 1847
Two-Stage Olive Cake
Ruminal fermentation and degradation patterns, protozoa population, and urinary purine derivatives excretion in goats and wethers fed diets based on two-stage olive cake: Effect of PEG supply, 2023

U

Ultrasound
Evaluation of Simmental carcass EPD estimated using live and carcass data, 661
Partitioning variances of growth in ultrasound longissimus muscle area measures in Angus bulls and heifers, 1272
The relationship of average backfat thickness of feedlot steers to performance and relative efficiency of fat and protein retention, 3366
Use of ultrasound to predict body composition changes in steers at 100 and 65 days before slaughter, 1621

Uncoupling Protein-3, 3,5,3′-Triiodothyronine
Effect of heat exposure on uncoupling protein-3 mRNA abundance in porcine skeletal muscle, 3493
Uncoupling Protein
Brown adipose tissue development and metabolism in ruminants, 942
Urea
Daily and alternate day supplementation of urea or biuret to ruminants consuming low-quality forage: I. Effects on cow performance and the efficiency of nitrogen use in wethers, 1508
Daily and alternate-day supplementation of urea or biuret to ruminants consuming low-quality forage: II. Effects on site of digestion and microbial efficiency in steers, 1518
Daily and alternate-day supplementation of urea or biuret to ruminants consuming low-quality forage: III. Effects on ruminal fermentation characteristics in steers, 1528
Effect of supplementation frequency and supplemental urea level on dormant tallgrass-prairie hay intake and digestion by steers and prepartum performance of beef cows grazing dormant, tallgrass-prairie, 884
The influence of high-nitrogen forages on the voluntary feed intake of sheep, 1536
Urea Recycling
Effect of nitrogen intake on nitrogen recycling and urea transporter abundance in lambs, 1157
Urinary Nitrogen Excretion
Dried skim milk as a replacement for soybean meal in growing-finishing diets: Effects on growth performance, apparent total tract nitrogen digestibility, urinary and fecal nitrogen excretion, and carcass traits in pigs, 3338
Uterine Capacity
The effect of divergent selection for uterine capacity on fetal and placental development at term in rabbits: maternal and embryonic genetic effects, 1046
The effect of divergent selection for uterine capacity on prenatal survival in rabbits: Maternal and embryonic genetic effects, 68
Utilization
Effects of ammonia load on methionine utilization by growing steers, 3537
Histidine utilization by growing steers is not negatively affected by increased supply of either ammonia or amino acids, 759

V

Vacuum Chewing
Behavior and reproductive performance by stalled breeding females on a commercial swine farm, 1482
Validation
Prediction of nutritive values in grass silages: I. Nutrient digestibility and energy concentrations using nutrient compositions and fermentation characteristics, 1367
Value
Consumer acceptance of calcium chloride-marinated top loin steaks, 1471
Evaluating consumer acceptability of various muscles from the beef chuck and rib, 521
Vascular Endothelial Growth Factor
Adipose tissue angiogenesis, 925
Vascularity
Effect of dietary restriction, pregnancy, and fetal type on intestinal cellularity and vascularity in Columbia and Romanov ewes, 3024
Very Low Density Lipoprotein
Effect of hypothyroidism on the blood lipid response to higher dietary fat intake in mares, 2640
Viability
Viability of Iberian × Meishan F_2 newborn pigs: I. Analysis of physiological and vitality variables, 1919
Video Image Analysis
Development and validation of equations utilizing Lamb Vision System (LVS) output to predict lamb carcass fabrication yields, 2069
Vigor
Genetic and nongenetic influences on vigor at birth and preweaning mortality of purebred and high percentage Brahman calves, 1581
Vitamin
Effect of vitamin supplements on some aspects of performance, vitamin status, and semen quality in boars, 626
Vitamin C
Effects of vitamin C supplementation on plasma ascorbic acid and oxalate concentrations and meat quality in swine, 2004
Vitamin D_3
Improving pork quality by feeding supranutritional concentrations of vitamin D_3, 218
Vitamin D
Effect of supplemental vitamin D_3 concentration on concentrations of calcium, phosphorus, and magnesium relative to protein in subcellular components of the longissimus and the distribution of calcium within longissimus muscle of beef steers, 2742
Effects of biological type of beef steers on vitamin D, calcium, and phosphorus status, 2043
Supplemental vitamin D_3 concentration and biological type of beef steers: I. Feedlot performance and carcass traits, 2050
Supplemental vitamin D_3 concentration and biological type of steers: II. Tenderness, quality, and residues of beef, 2092
The use of vitamin D_3 and its metabolites to improve beef tenderness, 242
Vitamin D_3 supplementation of cull cows: Effects on longissimus and semitendinosus muscle tenderness, 225
Vitamin E
Effect of supplemental tryptophan, vitamin E, and a herbal product on responses by pigs to vibration, 2410
Influence of concentrate composition and forage type on retail packaged beef quality, 2384
Oxidative environments decrease tenderization of beef steaks through inactivation of μ-calpain, 3254
Vitamin E supplementation does not mitigate the acute morbidity effects of porcine reproductive and respiratory syndrome virus in nursery pigs, 1942
Volatile Fatty Acid Absorption
Metabolic and microbial responses in western crossbred and Meishan growing pigs fed a high-fiber diet, 1740
Volatile Fatty Acids
Effect of increasing ruminal butyrate absorption on splanchnic metabolism of volatile fatty acids absorbed from the washed reticulorumen of steers, 3549
Effects of cereal grain supplementation on apparent digestibility of nutrients and concentrations of fermentation end-products in the feces and serum of horses consuming alfalfa cubes, 1986
Ruminal and host adaptations to changes in frequency of protein supplementation, 895
Splanchnic metabolism of VFA absorbed from the washed reticulorumen of steers, 2033
Voluntary Intake
Influence of mass of ruminal contents on voluntary intake and digesta passage in steers fed a forage and a concentrate diet, 1806
Vomitoxin
Effects of feeding blends of grains naturally contaminated with *Fusarium* mycotoxins on brain regional neurochemistry of starter pigs and broiler chickens, 2131

W

Wagyu
Effects of biological type and dietary fat treatment on factors associated with tenderness: II. Measurements on beef semitendinosus muscle, 779
Effects of biological type and dietary fat treatment on factors associated with tenderness: I. Measurements on beef longissimus muscle, 770
Environmental impacts of the Japanese beef-fattening system with different feeding lengths as evaluated by a life-cycle assessment method, 2115
Water
Effects of vitamin C supplementation on plasma ascorbic acid and oxalate concentrations and meat quality in swine, 2004
Timing of magnesium supplementation administered through drinking water to improve fresh and stored pork quality, 1454
Water Consumption
Physiological responses in swine treated with water containing sodium bicarbonate as a prophylactic for gastric ulcers, 2757

Water-Holding Capacity
Early postmortem biochemical factors influence tenderness and water-holding capacity of three porcine muscles, 1195
Weaning
Effect of plant extracts and formic acid on the intestinal equilibrium of early-weaned pigs, 3210
Effects of diet complexity and dietary lactose levels during three starter phases on postweaning pig performance, 2790
Effects of exogenous ghrelin on feed intake, weight gain, behavior, and endocrine responses in weanling pigs, 1957
Weaning Age
Increasing weaning age improves pig performance in a multisite production system, 1499
Weaning Piglet
Effect of diet composition on postweaning colibacillosis in piglets, 2364
Weaning Weight
Maternal and reproductive performance of Brahman × Angus, Senepol × Angus, and Tuli × Angus cows in the subtropics, 2764
Weight
A genome scan for quantitative trait loci and imprinted regions affecting reproduction in pigs, 3421
Welfare
Cubicle housing systems for cattle: Comfort of dairy cows depends on cubicle adjustment, 3321
The physical size of gestating sows, 2421
Wheat
Effect of high-selenium wheat on visceral organ mass, and intestinal cellularity and vascularity in finishing beef steers, 1788
Ileal amino acid digestibility and performance of growing pigs fed wheat-based diets supplemented with xylanase, 1997
Wheat Gluten
Comparison of wheat gluten and spray-dried animal plasma in diets for nursery pigs, 3635
Wheat Straw
Effect of alkali pretreatment of wheat straw on the efficacy of exogenous fibrolytic enzymes, 198
Whole Body
Effects of dietary iron supplementation on growth performance, hematological status, and whole-body mineral concentrations of nursery pigs, 3189
Winter Grazing
Effect of live weight gain of steers during winter grazing: I. Feedlot performance, carcass characteristics, and body composition of beef steers, 262
Winter Range
Nonstructural carbohydrate supplementation of yearling heifers and range beef cows, 2724
Within-Litter Variation
Within-litter variation in muscle fiber characteristics, pig performance, and meat quality traits, 414
Wool
The effects of cadmium in feed, and its amelioration with zinc, on element balances in sheep, 2489
Wool Characteristics
Evaluation of Dorset, Finnsheep, Romanov, Texel, and Montadale breeds of sheep: III. Wool characteristics of F_1 ewes, 2293
Wool Production
Evaluation of Dorset, Finnsheep, Romanov, Texel, and Montadale breeds of sheep: III. Wool characteristics of F_1 ewes, 2293

X

Xylanase
Effect of supplementation of xylanase and phospholipase to a wheat-based diet for weanling pigs on nutrient digestibility and concentrations of microbial metabolites in ileal digesta and feces, 2647
Ileal amino acid digestibility and performance of growing pigs fed wheat-based diets supplemented with xylanase, 1997

Y

Yellow Grease
Effects of supplemental fat on growth performance and quality of beef from steers fed barley-potato product finishing diets: II. Fatty acid composition of muscle and subcutaneous fat, 3611

Z

Zinc
Effect of dietary trace mineral concentration and source (inorganic vs. chelated) on performance, mineral status, and fecal mineral excretion in pigs from weaning through finishing, 2140
Effect of phosphorylated mannans and pharmacological additions of zinc oxide on growth and immunocompetence of weanling pigs, 581
Effects of copper and zinc source on performance and humoral immune response of newly received, lightweight beef heifers, 2467
Pharmacological zinc levels reduce the phosphorus-releasing efficacy of phytase in young pigs and chickens, 1732
The effects of cadmium in feed, and its amelioration with zinc, on element balances in sheep, 2489
Zona Pellucida
The relationship of porcine sperm zone-binding ability to fertility, 452

Author Index for Volume 82, E-Supplement
2004 meeting symposia
(online only, accessible via http://jas.fass.org)

A

Ackerman, C. J., 2764
Aaron, D. K., 245
Adams, D. C., 83
Allan, M. F., 300
Anderson, R. C., 93
Armstrong, D. G., 63

B

Bailey, D. W., 147
Bazer, F. W., 4
Beck, P. A., 75
Bischoff, K. M., 93
Burrin, D. G., 207
Bush, J. A., 207

C

Callaway, T. R., 93
Cole, N. A., 214
Cowan, R. G., 40

D

Davis, T. A., 207
Dekkers, J. C. M., 313
Draghia-Akli, R., 264

E

Edrington, T. S., 93
Emmerson, D. A., 173
Etherton, T. D., 239

F

Farin, C. E., 53
Farin, P. W., 53
Fiorotto, M. L., 264
Funston, R. N., 154

G

Galyean, M. L., 214
Garnsworthy, P. C., 63
Genovese, K. J., 93
Gong, J.-G., 63
Grings, E. E., 138
Gunter, S. A., 75

H

Harman, R. M., 40
Harvey, R. B., 93
Havlin, J. L., 277
Hays, V. W., 245
Heitschmidt, R. K., 138
Henderson, D., 292
Hill, G. M., 255
Hu, C.-L., 40
Hubbard, R. K., 255

I

Inskeep, E. K., 24

J

Jackson, D. J., 270
Jung, Y. S., 93

K

Kimball, S. R., 207
Klopfenstein, T. J., 83
Knowlton, K. F., 173
Krisher, R. L., 14

L

Lardy, G. P., 83

M

McMillan, I., 223

N

Newton, G. L., 255
Nisbet, D. J., 93
Noblet, J., 229
Novak, C. L., 173
Nunnery, G. A., 214

O

Oenema, O., 196

P

Patterson, H. H., 83
Piedrahita, J. A., 53
Pomp, D., 300
Poole, T. L., 93
Porter, D. A., 40

Q

Quirk, S. M., 40

R

Radcliffe, J. S., 173
Richardson, C. R., 214
Rotz, C. A., 119
Roush, W. B., 110

S

Spencer, T. E., 4
Stormshak, F., 1
Suryawan, A., 207

T

Tempelman, R. J., 162
Tozer, P. R., 110

V

van Milgen, J., 229
Vann, R. C., 207
Vermeire, L. T., 138

W

Walsh, B., 292
Webb, R., 63
Wesolowski, S. R., 300
Wester, D. B., 214
Whitley, N. C., 270

Subject index for Volume 82, E-Supplement
2004 Meeting Symposia
(online only, accessible via http://jas.fass.org)

A

Acremonium coenophialum
Novel endophyte-infected tall fescue for growing beef cattle, 75
Ammonia
Management to reduce nitrogen losses in animal production, 119
Apoptosis
Ovarian follicular growth and atresia: The relationship between cell proliferation and survival, 40
Atresia
Ovarian follicular growth and atresia: The relationship between cell proliferation and survival, 40

B

Beef Cattle
Fat supplementation and reproduction in beef females, 154
Management strategies for optimal grazing distribution and use of arid rangelands, 147
Power of test considerations for beef cattle experiments: A review, 214
Behavior
Management strategies for optimal grazing distribution and use of arid rangelands, 147
Bioequivalence
The power of tests for bioequivalence in feed experiments with poultry, 110
Bioequivalence Testing
Experimental design and statistical methods for classical and bioequivalence hypothesis testing with an application to dairy nutrition studies, 162
Body Composition
A new plasmid-mediated approach to enhance somatotropin function in pigs, 264
Body Fat
Quantitative genomics: Exploring the genetic architecture of complex trait predisposition, 300
Body Weight
Quantitative genomics: Exploring the genetic architecture of complex trait predisposition, 300
Bovine
Control of follicular growth: Local interactions and nutritional influences, 63
Development of fetuses from in vitro-produced and cloned bovine embryos, 53
Ovarian follicular growth and atresia: The relationship between cell proliferation and survival, 40
Breeding Programs
Commercial application of marker- and gene-assisted selection in livestock: Strategies and lessons, 313

C

Cattle
Animal management to reduce phosphorus losses to the environment, 173
Building beef cow nutritional programs with the 1996 NRC beef cattle requirements model, 83
Novel endophyte-infected tall fescue for growing beef cattle, 75
Cloning
Development of fetuses from in vitro-produced and cloned bovine embryos, 53
Complex Traits
Quantitative genomics: Exploring the genetic architecture of complex trait predisposition, 300
Conceptus
Uterine and placental factors regulating conceptus growth in domestic animals, 4
Cows
Preovulatory, postovulatory, and postmaternal recognition effects of concentrations of progesterone on embryonic survival in the cow, 24
Cytokine
Alteration of somatotropic function by proinflammatory cytokines, 100

D

Dairy Science
Experimental design and statistical methods for classical and bioequivalence hypothesis testing with an application to dairy nutrition studies, 162
Degradable
Building beef cow nutritional programs with the 1996 NRC beef cattle requirements model, 83
Denitrification
Management to reduce nitrogen losses in animal production, 119
Digestibility
Energy value of pig feeds: Effect of pig body weight and energy evaluation system, 229
Distribution
Management strategies for optimal grazing distribution and use of arid rangelands, 147

E

Ecology
Is rangeland agriculture sustainable?, 138
Economy
Is rangeland agriculture sustainable?, 138
Embryonic Survival
Preovulatory, postovulatory, and postmaternal recognition effects of concentrations of progesterone on embryonic survival in the cow, 24
Endophytes
Novel endophyte-infected tall fescue for growing beef cattle, 75
Energy System
Energy value of pig feeds: Effect of pig body weight and energy evaluation system, 229
Energy Value
Energy value of pig feeds: Effect of pig body weight and energy evaluation system, 229
Environment
Governmental policies and measures regulating nitrogen and phosphorus from animal manure in European agriculture, 196
Technical basis for quantifying phosphorus transport to surface and groundwaters, 277
Erosion
Technical basis for quantifying phosphorus transport to surface and groundwaters, 277
Estrus Synchronization
An update on estrus synchronization in goats: A minor species, 270
Experimental Design
Designing trials to test the bioequivalence of diets for animal performance, 223
Experimental design and statistical methods for classical and bioequivalence hypothesis testing with an application to dairy nutrition studies, 162
Power of test considerations for beef cattle experiments: A review, 214

F

Farm Production
Management to reduce nitrogen losses in animal production, 119
Fat Supplementation
Fat supplementation and reproduction in beef females, 154
Feed
Energy value of pig feeds: Effect of pig body weight and energy evaluation system, 229
Festuca arundinacea
Novel endophyte-infected tall fescue for growing beef cattle, 75
Fetus
Development of fetuses from in vitro–produced and cloned bovine embryos, 53
Follicle
Control of follicular growth: Local interactions and nutritional influences, 63
Ovarian follicular growth and atresia: The relationship between cell proliferation and survival, 40
Foodborne Diseases
What are we doing about *Escherichia coli* O157:H7 in cattle?, 93
Forage
Building beef cow nutritional programs with the 1996 NRC beef cattle requirements model, 83
Water quality and the grazing animal, 255

G

Gene Expression
Quantitative genomics: Exploring the genetic architecture of complex trait predisposition, 300
Genetic Architecture
Quantitative genomics: Exploring the genetic architecture of complex trait predisposition, 300
Genetically Modified Feedstuffs
Experimental design and statistical methods for classical and bioequivalence hypothesis testing with an application to dairy nutrition studies, 162
Genetically Modified Grains
The power of tests for bioequivalence in feed experiments with poultry, 110
Gonadotropins
Control of follicular growth: Local interactions and nutritional influences, 63
Grazing
Building beef cow nutritional programs with the 1996 NRC beef cattle requirements model, 83
Is rangeland agriculture sustainable?, 138
Management strategies for optimal grazing distribution and use of arid rangelands, 147
Growth Factors
Control of follicular growth: Local interactions and nutritional influences, 63
Growth Hormone
Alteration of somatotropic function by proinflammatory cytokines, 100
Somatotropic function: The somatomedin hypothesis revisited, 239

H

Hormone
Uterine and placental factors regulating conceptus growth in domestic animals, 4
Hypothesis Testing
Designing trials to test the bioequivalence of diets for animal performance, 223

I

In Vitro Embryo Production
Development of fetuses from in vitro–produced and cloned bovine embryos, 53
Insulin-Like Growth Factor
Alteration of somatotropic function by proinflammatory cytokines, 100
Development of fetuses from in vitro-produced and cloned bovine embryos, 53
Insulin-Like Growth Factor-I
A new plasmid-mediated approach to enhance somatotropin function in pigs, 264
Somatotropic function: The somatomedin hypothesis revisited, 239
Intervention
What are we doing about *Escherichia coli* O157:H7 in cattle?, 93
Intrauterine Growth
A new plasmid-mediated approach to enhance somatotropin function in pigs, 264

L

Leaching
Management to reduce nitrogen losses in animal production, 119
Technical basis for quantifying phosphorus transport to surface and groundwaters, 277

M

Management
Is rangeland agriculture sustainable?, 138
Management to reduce nitrogen losses in animal production, 119
Manure
Governmental policies and measures regulating nitrogen and phosphorus from animal manure in European agriculture, 196
Technical basis for quantifying phosphorus transport to surface and groundwaters, 277
Water quality and the grazing animal, 255
Markers-Assisted Selection
Commercial application of marker- and gene-assisted selection in livestock: Strategies and lessons, 313
Maturation
The effect of oocyte quality on development, 14
Meat Goats
An update on estrus synchronization in goats: A minor species, 270
Meiosis
The effect of oocyte quality on development, 14
Metabolism
The effect of oocyte quality on development, 14
Metabolizable
Building beef cow nutritional programs with the 1996 NRC beef cattle requirements model, 83
Muscle
Somatotropin regulation of protein metabolism in pigs, 207

N

Nitrogen
Governmental policies and measures regulating nitrogen and phosphorus from animal manure in European agriculture, 196
Water quality and the grazing animal, 255
Nitrogen Loss
Management to reduce nitrogen losses in animal production, 119
Nutrition
Control of follicular growth: Local interactions and nutritional influences, 63

O

Oocyte
The effect of oocyte quality on development, 14
Ovary
Ovarian follicular growth and atresia: The relationship between cell proliferation and survival, 40

P

Pathogens
Water quality and the grazing animal, 255
What are we doing about *Escherichia coli* O157:H7 in cattle?, 93
Phosphorus

Governmental policies and measures regulating nitrogen and phosphorus from animal manure in European agriculture, 196
Water quality and the grazing animal, 255
Phosphorus Excretion
Animal management to reduce phosphorus losses to the environment, 173
Phytase
Animal management to reduce phosphorus losses to the environment, 173
Pig
Energy value of pig feeds: Effect of pig body weight and energy evaluation system, 229
Pigs
Somatotropin regulation of protein metabolism in pigs, 207
Uterine and placental factors regulating conceptus growth in domestic animals, 4
Pituitary Development
A new plasmid-mediated approach to enhance somatotropin function in pigs, 264
Placenta
Uterine and placental factors regulating conceptus growth in domestic animals, 4
Policies
Governmental policies and measures regulating nitrogen and phosphorus from animal manure in European agriculture, 196
Poultry
Animal management to reduce phosphorus losses to the environment, 173
The power of tests for bioequivalence in feed experiments with poultry, 110
Power
Designing trials to test the bioequivalence of diets for animal performance, 223
Power Tests
The power of tests for bioequivalence in feed experiments with poultry, 110
Pregnancy Rate
Preovulatory, postovulatory, and postmaternal recognition effects of concentrations of progesterone on embryonic survival in the cow, 24
Progesterone
Preovulatory, postovulatory, and postmaternal recognition effects of concentrations of progesterone on embryonic survival in the cow, 24
An update on estrus synchronization in goats: A minor species, 270
Proliferation
Ovarian follicular growth and atresia: The relationship between cell proliferation and survival, 40
Prostaglandin
An update on estrus synchronization in goats: A minor species, 270
Protein
Building beef cow nutritional programs with the 1996 NRC beef cattle requirements model, 83
Protein Synthesis
Somatotropin regulation of protein metabolism in pigs, 207
Proteolysis
Somatotropin regulation of protein metabolism in pigs, 207

Q

Quantitative Trait Loci
Commercial application of marker- and gene-assisted selection in livestock: Strategies and lessons, 313
Quantitative genomics: Exploring the genetic architecture of complex trait predisposition, 300

R

Replication
How many pigs? Statistical power considerations in swine nutrition experiments, 245
Reproduction
Fat supplementation and reproduction in beef females, 154
Runoff
Technical basis for quantifying phosphorus transport to surface and groundwaters, 277

S

Sample Size
Experimental design and statistical methods for classical and bioequivalence hypothesis testing with an application to dairy nutrition studies, 162
Season
An update on estrus synchronization in goats: A minor species, 270
Sediment
Water quality and the grazing animal, 255
Selection
Management strategies for optimal grazing distribution and use of arid rangelands, 147
Sensitivity
Designing trials to test the bioequivalence of diets for animal performance, 223
Sheep
Uterine and placental factors regulating conceptus growth in domestic animals, 4
Skeletal Muscle
Alteration of somatotropic function by proinflammatory cytokines, 100
Social Acceptance
Is rangeland agriculture sustainable?, 138
Somatomedin Hypothesis
Somatotropic function: The somatomedin hypothesis revisited, 239
Somatotropin
A new plasmid-mediated approach to enhance somatotropin function in pigs, 264
Somatotropic function: The somatomedin hypothesis revisited, 239
Somatotropin regulation of protein metabolism in pigs, 207
Statistical Power
How many pigs? Statistical power considerations in swine nutrition experiments, 245
Statistics
Power of test considerations for beef cattle experiments: A review, 214
Supplementation
Management strategies for optimal grazing distribution and use of arid rangelands, 147
Sustainability
Is rangeland agriculture sustainable?, 138
Swine
Animal management to reduce phosphorus losses to the environment, 173
Swine Nutrition
How many pigs? Statistical power considerations in swine nutrition experiments, 245

T

Technology
Energy value of pig feeds: Effect of pig body weight and energy evaluation system, 229
Tumor Necrosis Factor
Alteration of somatotropic function by proinflammatory cytokines, 100

U

Uterus
Uterine and placental factors regulating conceptus growth in domestic animals, 4

W

Water Quality
Technical basis for quantifying phosphorus transport to surface and groundwaters, 277

Author Index for Volume 82, Supplement 1 (Joint meeting abstracts, 2004)[1]

A

Aalhus, J., 328
Aaron, D. K., 806, 807
Abdalla, A. L., W62, W63
Abdel-Azim, G., 35, 364
Abdelhadi, L. O., M118, M124
Abdullah, A. R., M7
Abe, C., 449, T159, W147, W187
Abi-Ghanem, D., M38, T92
Abril, J. R., M216
AbuGhazaleh, A. A., W99
Achanta, K., T273
Acharya, M. R., T301
Adair, H. S., 593
Adedokun, S. A., T46
Adefope, N., M36
Adeola, O., 137, 292, 293, 411, T14, T46, T47
Adesogan, A. T., 612, 615, M178, M182, M222, T212
Adhikari, K. A., 760
Agca, C., T144, T148
Aggrey, S. E., 442
Aguiar, G., W113
Aguilera, J. F., T52
Aguilera, J. I., T260, T262
Aguilera, P., T245
Aharoni, Y., W126
Ahlborn, G. J., 325
Ahmadzadeh, A., 428, 695, T128
Ahmed, S. A., W283, W294
Ahmedna, M., W172
Ahn, D. U., 147, 322, M45, W13
Ahn, H. J., T291
Ahn, H. S., M95
Ahn, J., T291, T292, T294, T295
Ahn, S. H., M95
Ahn, Y. T., W288
Aho, P., 872
Ahroni, Y., 600
Ahvenjärvi, S., W93
Aiken, G. E., 402, W181
Aikman, P. C., W117
Aimiuwu, O. C., 457, 458
Ajariyakhajorn, K., W249
Akay, V., 806, 807, M127, M131, M242
Akin, M., 753
Akutsu, K., W133
Alarcón, A., M184
Albanell, E., M197, M199, T173, T176
Albers, G., 905
Albrecht, K., M130
Alday, J. R., M20
Alderete, R., M184
Aldrich, J., 689, 690, 691
Alencar, M. M., W155
Alexander, J., 232
Alferink, S. J. J., W209
Alhadrami, G., W301
Al-Harthi, M., W54
Allee, G. L., 85, 248, 254, 413, 573, 574, 575, 576, 577, 578, 582, 699, 796, 908
Allen, D. T., M191
Allen, M. S., 482, 626, 628, 629, 951, T208, W95
Alleoni, G. F., T182
Allingham, P. G., 239
Allred, S. L., W90
Almeida, J. G., 825
Almeida, R., M166, M167
Alphin, R. L., 665
Alvarado, C. Z., 146, 148
Alvarez, E. G., T179
Ameiss, K., 126, T90
Amen, T. S., 882, 884
Amenyenu, A., M36
Ames, N. K., 921
Amezcua, C. M., 681
Amstalden, M., 590
Amundson, J. L., W242
Andacht, T., T151
Anderson, B., W231
Anderson, D. M., 670, 671, M136
Anderson, J. A., T97, T98
Anderson, K. E., 322, M277
Anderson, R. C., 16, 105, 112, 201, 706, M276, M288, M293, W275
Andreasen, A., T264
Andrews, J., 608
Andrighetto, C., M61, M62, M63, M69, M185
Anema, S. G., 82, M309
Angel, R., 190, 446, 697, T12, T116, W1, W23
Anguita, M., 90
Angulo, C., W5
Anil, L., W198, W199, W201
Anil, S. S., W198, W199, W201
Animut, G., W180, W181
Anita, G., 51
Annen, E. A., 929
Annen, E. L., 222, 223, 788
Annett, C. B., 436, 438, 977
Anthony, N. B., 108, T101
Antoniali, M., M188
Ao, T., 287
Apairoj, C., W250
Apanavicius, C., 371
Apgar, G. A., 624, 912, 913, W66
Apple, J. K., 234, 235, M75, M76
Appleby, M. C., 348
Applegate, T. J., 121, 190, 452, 682, 697, 770
Araiza, S., W246
Arakaki, C., M143, M144
Arango, J., 906
Araujo, D. B., W227
Araujo, F. R. C., 894, M23
Araujo-Febres, O., M123
Archambault, M., T78
Archbald, L., 797, 798
Archbold, T., M81, T53
Archer, G. S., 876, 878
Archer, J. A., 883
Archibeque, S. L., 159
Arcuri, P. B., M156, W87
Ard, M. B., M281
Ardisson, A. V., 540
Arechiga, C. F., M65, T260, T262, T263, W162, W163
Arenas-Vargas, M., W9
Arendt, R., W131
Argento, J., 780
Argov, N., M254
Argüelles, M., W56
Arias, J. A., 750
Arias, V. J., 120
Arieli, A., 600, 851
Ariyaratne, K. A. N. S., 84, M307
Armentano, L., M210
Armstrong, D. V., 598, M226
Armstrong, T. A., 234, 235
Arns, M. J., M246
Aroeira, L. J. M., W112
Arp, S. C., T183
Arseneau, J. D., 155, W222
Arthington, J. D., 168, 467, 468, 627, 804, 805, 809, M175, M237, M238
Arthur, J. A., 677
Arthur, P. F., 883, W263
Aryana, K. J., T270, T272, T273, T275, T277
Arzola-Nevarez, J., T253
Asem, E. K., 137, 293
Ashwell, C., 446
Ashwell, M. S., 744
Aspin, P. W., 334
Asványi, B., W287
Atencio, A., 122
Atkins, J. A., W218
Atkinson, R. L., 478, 687
Attaie, R., W167
Attamangkune, S., W3
Atwell, C., 138
Auchtung, T. L., 20, 68, 227, 500, 782, 783, 785, 925, T169, T172
Audren, G. P., 815
Auldist, M. J., 390, 780
Austin, K. J., T147, T234
Avellaneda-Cevallos, J. H., M180
Averette Gatlin, L., M80
Averill, T., M5
Avila, E., M48
Awawdeh, M. S., 156, T180
Axe, D. E., 243, T226
Ayangbile, G., 933
Ayres, J. S., 183
Aza, S., M28
Azain, M. J., 407
Azevedo, P. A., W74

B

Baas, T. J., 406, 899, 902, 907
Babot, D., 263
Bach, A., 692, M187, T203, W182
Bach, S. J., M161
Bacon, W. L., 308, T108
Bader, J. F., 414, 415, 418, W218
Badinga, L., 627, T121, T123
Baek, Y. J., W288
Baeza, J., W76
Bagg, R., 516, T53, W116
Bah, B., 654
Bahnson, P., M82
Baidoo, S. K., W198, W199
Bailey, C. A., 23, 115, M280
Bailey, J. S., 107, 274, 279, 280, 705, M281, M294
Baird, D., 779, 780
Baird, E. J., 469, 470, 942
Baird, L. G., T82
Bakalli, R. I., 291, 442, 812, M303, W36
Baker, D.H., 820
Baker, J. F., 589, 802
Baker, M. J., 403, 118, 119
Baker, N. J., 295
Baker, S. D., 726
Baldwin, VI, R. L., M165, T227
Balieiro, E. D. S., M25
Balieiro, J. C. D. C., M25
Balika, S., W146
Ballard, C. S., 388, 393, 619, 945, W204
Balog, J. M., 17, 108, 129, T86, T101
Band, M. R., W256
Bandyk, C. A., T181
Bandyopadhyay, A. K., T290
Banks, K. M., 682
Bannerman, D. D., T79, T95
Bañuelos-Valenzuela, R., M65, T262, W9, W160, W162
Barajas, R., M26, M27, M28, T36, T37, T246, T247, T248, T249, T250, T251, T254, T255, T256, T257, T258, W2, W151, W152, W158
Barb, C. R., M259, M261
Barb, R., T151
Barbano, D. M., 46, 542, 546, 759, 763, 789, T302
Barber, S. J., 459, W6
Barbour, D. C., 962
Barbour, E. K., M217
Barcelo-Fimbres, M., W232
Bárcena-Gama, R., M180, W103

[1]Please note: the numbers following key words in this index refer to abstract numbers, not page numbers.

Barlow, P. N., M307
Barndollar, A. S., 221, T139
Barnes, K., 554
Barney, D., 22
Barrera, M. A., T49
Barrett, R. A., 736
Barri, A., 126, T90
Barrios, T., 608, M10
Barros, J. B. G., M25
Barta, J. R., T89, W45
Bartell, S. M., 455
Bartelt, J., 814
Barten, A., 970
Bartolome, J., 627
Basenko, E. Y., 127
Basiricò, L., 652
Bastos, S., W57
Batajoo, K., T252
Batal, A. B., 455, 460, 685, 820, T21, W19
Bateman, II, H. G., 216, M132, T137, T190, T220, T233
Battacone, G., 203
Battaglia, R. A., 726
Baublits, R. T., 753, M73, W157
Baucells, F., 236, 253, 673, W37, W78
Baucells, M., W79
Bauer, C., T259
Bauer, M., M198
Bauer, M. L., 215, 837, T209
Bauermeister, L. J., 149
Bauman, D. E., 69, 209, 585, 789, T302, W91
Baumgard, L. H., 73, 609, 617, 623, 777, 786, 788, 929, M229, W84, W206
Beachnau, B. C., W211
Beagle, J. M., 913, W66
Beal, W. E., 104, T143
Beasley, J. N., T86
Beattie, C., W267
Beattie, V. E., T32
Beauchemin, K. A., 153, 613, 952, M120, M158, M198, T82, T186, W107
Beauchemin, V. R., W264
Beaulieu, A. D., 91
Beck, M. C., T20, T277
Beck, M. M., 301, T106, T107, T109
Beck, P. A., 394, 841
Beckett, J. L., W156
Bectel, R., 264, 604
Bedford, M. R., 292, 298, 299, 407, T14, T47
Bedgar, S. E., T209
Bee, G., 231, M54
Beers, K. W., T16
Beever, D. E., 622, W94, W117
Beever, J. E., W266
Behn, H., 531
Behnke, K. C., T25
Beitz, D. C., 230, 713, T126
Belden, E. L., 687
Belk, K. E., 200, 202
Bell, A. W., 557
Belloso, T. I., T77, T121, T123, T164, W119
Belsito, J. E., 257
Beltranena, E., 858, M100
Ben gara, A., 742
Benchaar, C., M159, T177
Bender, J., M113
Bender, J. B., 199, 903
Bene, S., W146
Benefield, B. C., T241
Bennett, G., 520
Bennett, G. L., 881
Bennett, L. W., 141
Bennett-Wimbush, K., M247, T268
Bennewitz, J., 901, W254
Benson, A. P., 306, 307
Benson, J. A., 15
Benton, J. R., 936
Bequette, B. J., 204, 205, T227, W1
Berends, C., 779
Berg, E. P., 717, M56
Berger, L. L., 392, 486, 838, 839, T194
Berger, P. J., M8
Berggren-Thomas, B., 557
Berghman, L. R., 18, 283, M38, T92, T111
Bergsma, R., 859
Berhan, T., W180
Berman, A. S., M97
Bermudez, L., 60
Bernabucci, U., 652, W97
Bernal, F. Y., 611
Bernard, C., W172
Bernard, J. K., 218, 476, 477, 943
Bernier, J. F., 170
Berrang, M. E., 316, 317, M43, M44
Berri, C., 822
Berry, E. D., M169
Berry, I. L., M17
Berry, S. L., 381, W183
Berry, W. D., 141, 268
Bersani, C., M102
Bertechini, A. G., T39
Berthiaume, R., 355, M192, M194, M213, T224
Bertiaume, R., 688
Bertics, S. J., W97, W123
Bertrand, J. K., 369, 885, M16, M21, W81
Berzaghi, P., 935
Best, A. O., M272
Best, T. F., W139
Beukes, P. C., 390
Bevans, D. W., 153
Beyer, R. S., W42, W43, W44
Bezerra, L. A. F., M23
Biagi, G., W49, W272
Bidner, T. D., 580, 581, M22
Bidwell, C. A., 65, W210
Bielke, L. R., 109, 110, M292
Biffani, S., 40
Biggs, P. E., 464, 681
Biggs, T. J., 158
Bikker, P., M110
Bilby, T. R., 627, T138, T140
Bilgili, S. F., 143, 269, M285, M295
Billey, L. O., T72
Bilodeau, J.-F., W77
Bilodeau, L., T124
Biluca, D. F., M268
Binder, E. M., 3
Bing, J. Q., W168
Bird, A. R., 771
Bird, S., 842
Birkett, S., W74
Birney, J. S., W186
Biscarini, F., 40
Biswas, A. C., T286, T288, T290
Bixby, J. A., M267
Black, C. M., 152
Blackburn, H. D., 890, W177, W258, W260
Blackman, I. C., 548
Blagburn, B., W169
Blair, E., 139
Blair, M. E., T21
Blake, J. P., 181, 268
Blalock, H. M., 472, 569, M154
Blank, G., 579
Blanton, Jr., J. R., 792, 240
Block, E., W86
Bloom, S. R., 13
Blore, P. J., 113, 197
Blouin, D. C., M155
Blowe, C. D., 900
Boe, F., 634
Boeneke, C., 489, T273
Boer, H., T237
Boettcher, P., 39, 790
Boggs, D. L., 157
Bohan, M., T126
Bohmanova, J., 889
Boin, C., T182, W82
Boisclair, Y. R., 353
Bokkers, E. A. M., 400
Boland, M. J., 82
Boland, T. M., 638, 639
Bolhuis, J. E., 400
Bolton, K., 815
Bontempo, V., M102
Boonyayatra, S., W249, W250
Bor, A., W214
Borchers, N., 901, W254
Borda, E., M96
Borg, R. C., 649
Borger, M. L., W243
Borgeson, T. L., 917
Bormann, K., M145
Borucki Castro, S. I., T224
Borwornpinyo, S., T30
Borzenkov, V. N., 707
Boston, R., 75, 76
Boston, R. C., 620, 856
Bosworth, B. G., M60, T161
Bottje, W. G., 134, 135, 136, 443, T99, T100, T163
Bouattour, A., M197
Boucher, J., 419, W238
Bougrat, L., 920
Bouraoui, R., 742
Bourassa, D. V., 107, 274, 316, M281, M294
Bowers, S. D., 660, 693, 928, W219, W231, W237
Boyd, R. D., 575, 582
Boydell, A., W117
Braden, K. W., 232
Bradford, B. J., 626
Bramble, T. C., M181
Bramwell, K., W15
Branco, A. F., 840, T235, T236
Brandt, H., T259
Brannon, J., 449, W31, W32
Bransby, D., 655, W169
Branton, S. L., 127, 278, M296, M299, T94, W4, W6, W12
Braud, T. W., T220
Brauer, D. K., 53, 57
Braw-Tal, R., 931
Bregendahl, K., T53, W13
Brennand, C. P., W90
Brickett, K. E., 116
Bridges, G. A., 102
Briggs, L. A., M154
Briggs, S. A., 454
Brigham, B. W., 651
Briles, W. E., 282
Brink, D. R., T269
Brinkerhoff, J., 957
Brion, T. G., W136
Brito, A. F., 340, 341
Britt, J. S., 611
Broaddus, B., T264
Brock, A. P., 657
Broderick, G. A., 340, 341, 391, M215, T217, T242
Brokman, A. M., M176
Brookes, I. M., 562, W114
Brooks, J. C., M74
Broomhead, J. N., 300., 823, W33
Brophy, P. O., 249
Brouk, M. J., 596, 597, 598
Brown, Jr., A. H., 753, M17, M73, M119, W157
Brown, D. C., 252, M92
Brown, D. R., M237, T216
Brown, M. A., 753
Brown, M. S., 158, 717
Browning, Jr., R., 656
Bruce, K., T43
Bruhn, C. M., 490
Brum, S. S., M156
Bruneau, A., 920
Bruni, A., W200
Bruno, R. G. S., 74, 586, 633, W96
Bruss, M. L., T205
Bryan, K. A., M262
Bryant, D. I., 593
Bryant, T. C., 474
Bsharat, M., W167
Bünger, L., W261
Bucci, P. B., 949
Buchanan, F. C., 224
Buchanan, N. P., 118, 295
Buckham, K. R., 865
Buckley, F., 423, 526, 537
Budgell, K. L., 25, 321
Buhr, R. J., 107, 274, 316, M49, M281, M294, W38
Bulajic, S., M288
Buonomo, F. C., T156
Bureau, D.P., W74
Burger, E. K., M56
Burghardi, S. R., W136
Burke, J. M., 53, 57, W175
Burke, M. L., M282
Burkett, J. L., 406
Burkey, T. E., 863
Burkhardt, R. J., 350
Burkhart, K., 719
Burnham, D. J., 193, 813, W4, W12
Burns, J., 560, 561
Burns, P. D., 474
Burrin, D., 14
Burrington, K. J., 492
Burton, J. L., 35, 79, 775, 865
Busch, D. C., 414, W218
Bush, E. J., 196
Bushmich, S., 78
Buskirk, D. D., 775
Busquet, M., 940, T201
Busto, I., W182
Butler, B. L., M227
Butler, J., W27

Butler, S. T., 584
Butler, W. R., 584, 585
Buttles, T. J., M305
Buyserie, A., M148
Byars, M., 656
Byatt, J., W267
Byatt, J. C., 897, 901, W254
Byong Ju, H., M162
Byrd, J. A., 16, 105, 106, 114, M276
Byrem, T., 259
Byrne, C., 249
Byrne, N., 526
Byun, J. R., W281
Byung Ki, P., M162, M164
Byung-Jo, C., M94

C

Cabassi, E., W273
Cabral, L., M205, T213, W83
Caccamo, M., 546
Cachaldora, P., 673
Cafe, L. M., 722
Caja, G., 263, M199, T173, T176, W153
Calderon, A. C., T244
Caldwell, D. J., 126, M280, T90
Calegare, L., W155
Calhoun, M. C., 447
Calixto, M. G., M61, M62, M63, M69
Callaghan, P. T., M308
Callan, J. J, 249, 638, 639, M86, M98, M101
Callaway, T. R., 16, 112, 201, 706, 718, M288, M293, T8
Calsamiglia, S., 940, M157, M197, M223, T197, T198, T200, T201, T211, W88, W188
Calvo, M. A., 546
Camacho, A., W158
Campanicki, J. E., 714, T61
Campbell, D. R., 823
Campbell, G. L., 679
Campbell, J. C., 376, W13
Campbell, J. M., 254
Campbell, W. T., W258, W260
Campos, J. M. S., W87
Canavesi, F., 40
Cannas, A., 634
Cannon, V. L., M216
Cant, J. P., 225, T175, T184, T222, W102
Cantor, A. H., 287
Cao, R., W61
Capel, M. B., 426
Caperna, T. J., T149
Capper, J. L., 880
Cappio Borlino, A., 28
Capps, P. K., 394
Capuco, A. V., 220, 353, 497, 500, T172
Caraviello, D. C., M256
Caraviello, D. Z., 33., W123, W247
Carbough, D., T67
Cardoso, F. F., 363
Carellos, D. de C., T44
Carey, J. B., 23, 115, 322, 434, 440, 703
Carlson, D. B., 630, 631, 854, T136
Carlson, M. S., M56, M83
Carlson, S. A., T9
Carmona, M. A., M26, M27, M28
Carneiro, H., M156
Carney, V. L., 271, 272
Carpenter, E. A., T170
Carpenter, G., 643
Carpenter, H. E., W186
Carpino, S., 544
Carr, L. E., 8, 665
Carrilho, E., M32, W20
Carrión, D., W79
Carriquiry, M., 67
Carro, T., T115
Carroll, J. A., 248, 717
Carstens, G. E., 725, 729, M152, W275
Carter, M. P., 619, 945
Cartwright, A. L., 23, 115, M280
Carunchia Whetstine, M., 48
Cary, D. C., 712
Casadei, G., M112, W49, W272, W273
Casals, R., M197, M199, T173, T176
Casas, E., 647
Casey, D. S., 174, 175
Casey, K. D., 192
Casey, T. A., T11
Cason, J. A., 316, 317, M49
Casper, D. P., 933
Cassady, J. P., 26, 529, 896, 900, 903
Cassell, B. G., 214, 534, M1
Cassidy, T. W., 848, W86, W126
Cassill, B. D., W73
Cassis, L., M64
Castaneda, E. O., 603
Castañeda, M. P., M48, T118
Castaneda-Gutierrez, E., 69
Castelo Branco, P. A., M91
Castillejos, L., M197, T200, W88
Castillo, A. R., 381
Castillo, M., 543, T285
Castillo, V., T173
Castillo-Juarez, H., M2, M3
Castillo-Pecina, M. A., T260
Castro, C. B., W47, W48
Castro, F. C., M171
Castro, H., T258
Castro, P., W151, W152, W158
Castro-Gómez, H., M2
Cavitt, L. C., 145, 150
Cebert, E., M117
Cengiz, O., 297
Cerchiari, E., 88
Cerioli, C., W18
Cerisuelo, A., W79
Cerosaletti, P. E., 700
Cerrato, M., T198
Cerri, R. L. A., 74, 586, 633, W236, W239
Cerrillo-Soto, M. A., T253, W164, W165
Cervantes, B. J., W151, W152, W158
Cervantes, M., T35, T49, W69, W76
Chalova, V. I., 123, 463, 644
Chalupa, W., 620
Chambers, D. H., T278, T279
Chameroy, K., 78
Chamruspollert, S., W3
Chang Six, R., M164
Chang, L.-C., 865
Chapa, A. M., 523
Chapin, L. T., 499
Chapman, H. D., 124
Chapman, M. E., T103, T104
Chappelka, A., M125
Charbeneau, R. A., 667, 830
Charbonneau, E., 852
Charmley, E., 328, 333, M159, T177
Chase, Jr., C. C., M74, M24, M238, T122, T144
Chase, L. E., W101
Chaves, A. V., 562, W114
Chaves, M. L., T187
Chavez, C., 440
Chavez, J. J. J., M65
Cheatham, R. C., 929, W206
Chebel, R. C., 586, W239
Chee, K. M., W14
Chen, C.-Y., 729
Chen, H.-Y., M303
Chen, S.-E., 140
Chen, T. C., M41, M42
Chen, Y. C., M41, M42
Chenault, J., 419
Cheng, H.-W., 439, W193, W194
Cheng, T., 826
Cheng, W. T. K., M39
Cherney, D. J. R., 557, M153, W101
Cherney, J. H., M153, W101
Chester-Jones, H., 67, W205
Chevaux, E., M102, M190
Chi, E., W76
Chiari, J. R., W226
Chichlowski, M. W., T209
Chikagwa-Malunga, S. K., T212
Chiquette, J., M192
Chisley, C., 656
Chiulli, N., W272
Cho, C. Y., W74
Cho, J. H., M95, M104, T55
Choi, C. B., M170
Choi, H. J., T293, T294
Choi, J., T276
Choi, J. H., W14
Chouinard, P. Y., 688, 955
Chowdhury, S. R., T26
Christensen, C. R., T229, W68
Christensen, D. A., 224, 954, T229, W68
Christensen, T., 642
Christensen, V. L., 306, 307, 771, T105
Christenson, R. K., 895, M258, M266
Christian, M. L., W144
Christiansen, D. L., 693
Christie, B., 609
Christman, M., W23
Christopherson, B. T., 88
Chung, H. Y., W262
Chung, H.-Y., T289
Chung, K. Y., M77
Chung, M. K., W14
Chung, Y. H., T190
Chung, Y.-H., 848
Ciarlariello, A., M58, T160
Ciccioli, N. H., 588, 591
Cigalino, G., M190
Cipriano Rocha, F., M205
Cisar, C. R., T101
Cisneros, I., M181
Clack, B., 125
Clapham, W. M., M133, M134, M135
Clapper, J. A., 724
Clark, D. A., 567
Clark, J. D., 219
Clark, J. H., 338, 339, 356, T206, T233, T241
Clark, P. M., T25
Clark, S., T300
Clary, G. M., 566
Classen, H. L., 116, 436, 438, 456, 815, 977
Clavero, T., W299, W302
Clay, J. S., 738, M8
Cleere, J. J., 433, 924, M142, 566
Clement, J. C., 415
Clemente-Hernandez, S., 125
Cleveland, M. A., 890
Clevenger, D. D., M216
Cloud, S. S., 665
Clutter, A. C., 897, 901, W254
Clymer, B., W156
Coalson, J. A., 796, T74
Cobanov, B., M138
Coblentz, W. K., 54, 58, 59, M119, M122
Cobos, M., M180
Cochran, E. M., 158, 717
Coetzee, E., M186
Coffee, A., 608
Coffey, K. P., 54, 58, 59, M119, M122
Cohick, W. S., T167
Coker, C. J., T297
Colazo, M. G., W216
Cole, A. C., 760
Cole, J. B., 532, 536, 648
Cole, K., 113, 197
Cole, N. A., 12, 159, T178
Coleman, S. W., M24, M74, M238, T122
Collar, C. C., 381
Collier, C. T., 250
Collier, R. J., 222, 223, 623, 786, 788, 929, T141
Collins, J. R., T243, W173
Coma, J., W79
Combs, D. K., W110
Cone, J. W., 938
Coneglian, S. M., 840, T235, T236
Conill, C., W153
Conner, D. E., M285
Connor, E. E., 220, 353, 500, T172
Connor, J. F., M15
Considine, T., 84, M309
Conti, G. A., M143, M144
Contreras, C, T7
Contreras, E., W29
Contreras, G., M26, M27, M28, M29, M70, W5, W47, W48
Cook, J. E., W189
Cook, M. E., 667
Cooke, K. M., 218
Cooke, R. R., W123
Coon, C. N., 294, T119, T120, W7, W15
Cooper, J. B., T266
Cooper, M., 134, 135, 136, T99, T100, T163

Coors, J. G., T214, T215
Core, L. B., 966
Corl, B. A., 789
Corley, J., 675
Corley, M. M., T83, T84
Corley, III, R. N., W168
Cornejo, S., W29
Cornelissen, A. H. M, 616
Cornelius, S. G., M97
Corners, J., W80
Cornett, L. E., T111
Corrigan, A. M., 56
Corro, M. D., 553, 554
Cortés, M., W17, W37
Cortese, J. R., 158
Cortina, R., M70
Corzo, A., 459, 818, 821, T94, W4, W6, W12
Cosby, D. E., 107, 274, 279, 280, M281, M294
Coscioni, A. C., 74, 101, 633, W236
Costa, S. F., T187
Costello, M. J., T300
Costello, S., 748
Costine, B. A., 595
Cotanch, K. W., 388, 393, 619, 945
Coufal, C. D., 434, 440
Coussens, P. M., 865, 930, T130
Cox, A., 238, 800
Cox, N. A., 107, 274, 279, 280, 323, 324, M281, M294
Cox, R. B., 232
Cox, W. J., W101
Coy, C. S., T162
Craig, T., W244
Cramer, K. R., W42, W43, W44
Crandall, D., T151
Crandall, K. L., 262
Cravener, T. L., 265, 266, 831
Crawford, H. M., 781, 785
Creamer, B. A., T157
Creamer, L. K. 82, 83, 84, M307, M308, M309, T297
Crenshaw, J. D., 254, 376, W13
Crenshaw, T. D., 243, M82, T50
Crespo, M., M211
Creus, E., 90
Crews, Jr., D. H., 173
Croissant, A., 48
Cromwell, G. L., 296, 409, 410, W34, W67
Crooker, B. A., 67, 223, T127, T143, W205, W206
Croom, Jr., W. J., 771
Crosby, T. F., 638, 639
Crouch, A. N. , M297
Crouch, J., 523, 610
Crownshaw, J., 49
Cruywagen, C. W., M186
Cruz y Victoria, M. T., W291
Cruz, G. M., W155
Cuaron, J. A., 86, M79
Cuauro, M. A, M123
Cubitt, T. A., 77
Cuca, M., W76
Culbertson, M., 906
Cullens, F. M., 627
Cundiff, L. V., 881, 888
Cuneo, S. P., M252
Cunningham, N., T68
Cupp, DVM, MS, C. J., 370
Curley, Jr., K. O., 433, 924
Curtis, S. E., 431, 603
Curtiss, III, R., 281
Cushman, R. A., M266
Custodio, A. A., M211
Custodio, M. G., 911
Cvetkovic, B., 596, 597
Czarick, M., 664
Czarnecki-Maulden, G., 370, 371

D

Da, Y., 362, 366, 745, 755, W253, W257
Daetz, R., T245
Dahiya, J. P., 289
Dahl, G. E., 20, 21, 68, 207, 227, 500, 781, 782, 783, 784, 785, 925, T169, T172
Dahlen, C. R., 475
Dahlquist, J. M., M177
Dailey, J. W., 508, W197
Dale, N. M., 447, 685, W19, W53
D'Alfonso, T. H., W22
Dalton, J. C., 383, 428, T128
Dana, G., W65
Danesh mesgaran, M., M208, T240, W108
Danforth, H., T90
D'Angieri, F. S., 836
Daniel, J. A., T64
Daniel, L. R., 771
Daniels, K. J., W185
Daniels, M. B., M119
Danielson, R. B., 215
Dann, H. M., 630, 631, 926, T133, T134
Dannenberger, D., W85
Dantzler, A., W170
Dargatz, D. A, 196
Dari, R. L., W22
Darre, M. J., 322
Das, S., W289
Daskiran, M., 297
Daubert, L., 976
Dave, R. I., 765, T298, T299, W289, W290
Davenport, G. M., 375
Davidson, D. L., 342, 606, M140
Davies, D. W. R., M204, T232
Davila, V., M290, T118
Davis, A. J., 306, 307, 447
Davis, B., 51
Davis, C., 609
Davis, L. E., 499
Davis, M. E., 234, 235, 252, M92
Davis, P. A., M174
Davis, S., 298, W24
Davis, T. A., 766, 767
Dawson, L. J., W175, W181
Day, M. L., 102, W222, W223
Dayton, W. R., T152, T153, T154
Dean, B., W271
Dean, D. B., 612, 615, M178
Dean, D. W., 581
deAraujo, A., T264
Deaton, P. C., W303
Debeer, M., W7, W15
de Campos Valadares Filho, S., W83
Dechow, C. D., W245
DeDecker, J. M., 861, T60
Deen, J., W198, W199, W201
Deffenbaugh, L. B., 372, 373
DeFrain, J. M., 850, W120
de Freitas, R. T. F., T34, T51
DeGaris, P. J., 845, 846, 847
Degen, G. H., T56
DeGroot, M. A., 844
Dehority, B. A., T202
DeJarnette, J. M., W222, W223
Dekat, C. L., M244, M245, M246
Dekkers, J. C. M., 749, 752, 904, W255
De la Rosa, P. C, W47
de Lange, C. F. M., 768, 916, M84
De Lazaro-Urbina, E., W160
Delbecchi, L., T171
Del Rio-Martinez, J. H., W9
Delgado, E. J., M64
Dell'Orto, V., M102, M190, W109
Delmonte, P., 209, 777
Demarchi, J. J. A. A., T182
de Medeiros, S. R., W112
Demetrio, D. G. B., W226
Deng, F., W252
Denham, S. C., T165
Denogean, F., W246
Denson, A., W219, W237
de Oliveira, D. E., W112
Depenbusch, B. E., 331, W274
DePeters, E. J., 74, W96
DeRouchey, J. M., 177, 570, 571, 914, W144
DeRouen, S. M., M19
Desilva, U., 774
de Sousa, R. V., T33, T38
Desury, G., T167
Detmann, E., T213, W83
Detweiler, G., W174, W181
Devant, M., 692, M187, T203
de Veth, M. J., 69
Devitt, C. J. B., 892
de Vries, A., 257, M14, M227
deVries, A., T264
DeVries, T. J., 430, W184
Dewhurst, R. J., M209, T218
Dhandu, A. S., T12
Dharmavaram, S. R. K., W277
Dhiman, T. R., 513, M206, M263, W90, W92, W113
Dhulipala, V. C., W191
Diaz, A., T118
Díaz, B., W29
Diaz, D. E., W273
Dibner, J. J., 138, 832
Dick, P., 516, T53, W116
Dicken, U., 851
Dickerson, T. W., 660, 693, 928, W219, W237
DiCostanzo, A., 475, M237
Diehl, J. K., W141
Dietert, R., 285
Difalco, A., 544
Di Giancamillo, A., M102
Dijkstra, J., 389, 950
Dikeman, M. E., 888
Dilger, A. C., 241
Dilger, R. N., 411, T47
Dillon, P. G., 423, 526, 537, M229
DiLorenzo, N., 475
Di Mauro, C., 28
Ding, S. T., M39
Dinger, J., 78
Dinsmore, R. P., 258, 521
Dirain, M. S., 252
DiRienzo, D. B., 493
Diskin, M. G., 95, 98, 422
Ditchkoff, S., M125
Dixon, B., W225
Dodds, C. C., T297
Dodson, D., M113
Dodson, R. E., 922, 923, W251
Doepel, L., 170
Domeneghini, C., M102
Domingue, J. D., M22
Dominguez-Avila, N. E., W9
Dominguez-Diaz, D., M114, M115
Donahue, J. M., 96
Donaldson, J., 637
Donaldson, L. T., M273
Donalson, L. M., M234, M278, M279, M289, M304
Dong, B., 226
Donkin, S. S., 65, W127, W185, W210
Donley, J., 957
Donnelly, B., 656
Donnelly, C., 186
Donoghue, A. M., 17, 108, 109, 110, 111, 113, 128, M290, T101
Donoghue, D. J., 109, 113, 197
Donovan, A., 797, 798
Donovan, D. C., T63
Doores, S., 720
Dorsey, B. R., 417
Dorton, K. L., 474
Dos Santos, A. R., M253
Dou, Z., 606
Douglass, L. W., M149
Doumit, M. E., 775
Dourmad, J. Y., 583
Downing, T., 386, M148
Downs, K. M., M306
Doyle, M. P., 501
Doyon, A., 955
Dozier, III, W. A., W53
Drackley, J. K., 365, 630, 631, 854, 856, 926, T133, T134, T135, T136
Drake, M. A., 48, 545
Dransfield, D., 834
Drew, M. D., 89, 255, 289, 453, 917
Driedger, L. J., 72, 217
Driskill, R., M145
Dritz, S. S., 359, 570, 571, 863, 914
Driver, J. P., 291, 812, W36
Drost, M., 103
Drouillard, J. S., 331, W274
Du, F.-X., 897, 901, W254
Du, W., W61
Dubeux, Jr., J. C. B., 809, M128
Duckett, S. K., 640, 802, 803, M133, M134, M135, T261
Duff, G. C., W84, W206

Duffield, T. F., 514, 515, 516, 517, 711, T78, W116
Dufour, J.-P., 49
Dugger, T. A., T84
Duke, S. E., 402
Dulicsek, R., T283
Dumonceaux, T. J., 454
Duncan, S. E., T305
Dunkley, C. S., 112
Dunkley, K. D., 112, M288
Dunphy, K. A., 354
Dunshea, F. R., 769
Duran, G. M., 47
Durand, D., T231
Dust, J. M., 377
Duynisveld, J., 328, 333, M159, T177
Dvorak, R., M92
Dwyer, D. A., 69, T302
Dwyer, M. E, T141, 223, 609, 929
Dyer, C. J., 897, W267
Dyer, R., 871
Dyer, R. M., 714, T61, T62
Dzakuma, J. M., W258, W260

E

Eakins, R. L., 415
Ealy, A. D., M262, M267, T140
Earing, K. E., M183
Earley, D. L., T93
Eastridge, J., M71
Eastridge, M. L., 949, M150, M151
Eberly, L. E., 199
Ebert, A., 810, M97
Ebert, A. R., 461
Echavarria, F., M65, W162
Echternkamp, S. E., M266
Edens, F. W., T87
Edrington, T. S., 16, 105, 201
Edwards, Jr., H. M., 122, 291, 442, W36
Edwards, J. L., 97
Edwards, P. J. B., M307
Egan, A. R., W135
Eguchi, Y., 874, T159, W147, W187
Eichen, P. A., W191, W192
Eicher, S. D., 712
Eichner, G., 810, 825
Eifert, E. C., W87
Eisen, E. J., 771, 900
El Attrache, J., 126
El Awad, A., W301
Elborough, K. M., 334
Eldeek, A., W54
Elek, P., W122
Eler, J. P., M25
Eleswarapu, S., T142
El-Gammal, A., M298
Elia, R., 521
El-Kadi, S. W., 204, 205, W1
Ellen, H., 195
Ellersieck, M. R., 414, M232, W80
Ellis, J. L., W102
Ellis, M., 603, 861, M240, T60, W143, W266
Ellis, S., 494
Ellis, W., 552
Ellis, W. C., M139, M152
El-Safty, S. A., 286
Elsasser, T. H., 864, M165, T64, T65, T66, T67, T122, T144
El-Sheikh, T., 326, M298
Elwell, M. W., 759
Ely, D. G., 806, 807
Ely, L. O., T63, T264, T265
Emanuelson, U., 731
Emerich, W. C., 388
Emmert, J. L., 144, 145, T16, T21, W8
Endecott, R. L., 152
Ender, K., 398, T56, W85
Endres, M. I., W184
Eng, K. S, 604, 264
Engberg, R. M., W37
Engle, T. E., 474
Enns, R. M., 368, 651, 887, 890, 893, W264
Epperson, W., T64
Erdei, I., W146
Erhardt, G., T259
Erickson, G. E, 7, 329, 330, 332, 357, 473, 936
Erickson, P. S., W203
Ericsson, S. A., W258, W260
Ernst, C. W., 748
Ernst, R. A., 322
Eruslanov, B. V., 707
Escobar, F. J., W163
Escobar, J., 766, 767
Espinel, A. E., W37
Espino, M. A., T254, T255
Espinosa, M., M59
Estefan, G., 808
Estell, R. E., M136
Estheimer, M. D., 929
Estienne, M. E., 909
Estienne, M. J., 594, 918
Estrada-Angulo, A., T246, T247, T248, T249, T250, T251, T256, T257, T258
Etchebarne, B. E., 482, 495
Etienne, M., 583
Etter, R. P., 953
Eubanks, S., T264
Eun, J. S., T184, T193
Eun, J.-S., 613, M120, M198
Evans, J. L., 554
Evans, R. R., W139
Evans, R. T., M202, M209, T218, W132
Evans, T. J., T75, W191
Everett, D. W., 49
Everts, R. E., T133, T134, T135, T136, W256
Evjen, I. M., 513
Eyer, K., W267
Eyestone, W. E., W159

F

Fàbrega, E., T57
Faciola, A. P., M215
Fadel, J. G., 599
Fahey, A. G., 30, 31, W185
Fahey, G., T43
Fahey, Jr., G. C., 374, 377, W70
Fairchild, B. D., 306, 307, 664
Falahatpisheh, M. H., M38
Falcão, L., M224
Falcone, C., W195
Fales, S. L., 349
Falk, D., 726
Famula, T. R., 894, M23, M236
Fan, M. Z., M81, T53
Fan, Y. K., 771
Fanatico, A. C., 145, T16, W8
Fancellu, S., 634
Fancher, B., 271
Fargo, D., T70
Faria, A, T7
Faria, C. U., M23
Farkye, N., 545
Farley, N. R., T125
Farmer, C., 778, T168, W196
Farr, V. C., T170
Farran, M. T., M217
Fasenko, G. M., 267, 271, M300
Fasina, Y. O., 456
Fathi, M. M., 286
Faulkner, D. B., 838, 839, M177, T194
Faust, M. A., 911
Fava, M., M102
Fedeli, R., 790
Fedorka-Cray, P. J., 196, M44
Feitoza, G. F., M66
Fekadu, B. A., 654
Fellner, V., 942
Felmer, E., M126
Feltes, R. J., W266
Felton, E. E. D., M18
Fent, R. W., 248, 413, 575
Ferguson, J. D., 164, 165
Ferguson, S. E., 206
Ferket, P. R., 456, 465, M284, M297
Fernandes, T. L., 892
Fernandez, D. L., W212, W241
Fernandez, D. M., 86, M79
Fernandez, J., 787, W130
Fernández, J. I., 94, W50, W51
Fernandez-Figares, I., T52
Fernando, R. L., 44, 752, 898, W255, W265
Ferraz, J. B. S., M25
Ferreira Diniz Valadares, R., M205
Ferrell, C. L., 159, M169
Ferrer, I. V., M27, M29
Ferret, A., 940, M157, M223, T197, T198, T200, T201, T211, W88, W188
Ferrini, G., M96
Fialho, E. T., M87, M88, M91, M93, T33, T34, T38, T39, T44, T51
Fialho, F., M32, W20
Fiardo, S., 616
Fiedler, I., 398
Figueiredo, A. N., W22
Figueiredo, L. G. G., M25
Figueroa, J. L., W76
Filetti, F., M58, T160
Filgueiras, E. P., T44
Filipy, J. M., 602
Fiorentini, L., W18
Fiorotto, M. L., T166
Firat, M. Z., 752
Firkins, J. L., 939, T221
Firman, J. D, 139, 683
Fiscalini, J. B., M226
Fischer, B., 531
Fischer, E., 531
Fisher, M., T261
Fisher, W. J., M202, M204, T232
Fitzgerald, A. C., 222, 223, 788, 929, T141
Fitzpatrick, E., 249
Fitzpatrick, S., M220
Fledderus, J., 89
Fleming, J. N., 240
Fleming, R., 607
Fletcher, D. L., 316, M44
Fletcher, D. W., W67
Flickinger, E. A., 250
Flis, S. A., 337, W137
Flores, A., W17, W51
Flores, R., 402, 419, W175, W238
Flowers, W., W224
Foerster, M., 661, W207
Foley, A. E., 953, M195
Foley, M. A., 638
Folkers, C. F., 390
Fonda, E. S., W212
Fonseca, A. P., M224
Fonseca Paulino, M., W83
Font i Furnols, M., T57
Fontanillas, R., M110
Fontenot, J. P., 565, M133, M134, M135
Foote, M. R., 713
Forbes, T. D. A., M129, M142, M152
Ford, M. J., 287
Ford, S. P., 478, T147, T234
Fornshell, G., 701
Foroughi, A. R, W108, M208, T240
Forrest, D. W., W233, W244
Forrester, L. J., T148
Forristall, C., 484
Forsberg, N. E., 480, 716
Fortier, M.-È., W77
Fosnaught, M. H., 669, 676
Fossler, C. P., 199
Foster, J. L., M139
Fowler, M. A., 713
Fox, D. G., 403, 621, 700, 934
Fox, J. T., W275
Fox, L., 970
Foxcroft, G. R., 858
Frago, F., 428, T128
France, J., 663
Francis, L. L., T278, T279
Franco, D. J., 301, T106
Franco, R., W171
Frank, J. F., 756, M43, T280
Frank, J. W., 766, 767
Franke, D. E., M22
Franklin, S. L., T9
Franklin, S. T., 72, 217, 534
Frantz, E. D., 624
Frantz, N. Z., 570, 571
Fraser, D., M173
Fredrickson, E. L., M136
Freeman, A. E., 35
Freeman, D. E., 338, T206
Freetly, H. C., 159, M169
Frehner, M., 674
Freire, M. S., 80
Freitas, E., W57
Freitas, J. A., T238
Freitas, R. T., M91
Freitas, R. T. D., T39
Freitas, R. T. F., T44
Freking, B. A., 647
French, E., 416
French, P., 71, 386, 875, M148
French, P. D., 844, W128

Freyer, G., W259
Fricke, P. M., 427, M260, W213, W217
Friend, T. H., 876, 878, 879
Fritts, C. A., 821
Froetschel, M. A., 589, 632, 857
Froning, G., T20
Frost, T. J., W36
Fu, C. J., W278
Fu, J., W55, W59
Fu, S. X., 248, 413, 573
Fuentes, M. de F., W57
Fuentes, P., 877
Fuentes, V., 877
Fuentetaja, A., 237, M90
Funk, T. L., W143
Fusconi, G., W58

G

Gaál, T., W122
Gabarrou, J.-F., 509, 920
Gadberry, M. S., 841
Gadiyaram, B. L., T303
Gadiyaram, K. M., W161
Gaggiotti, M. C., M143, M144
Gagnon, N., 170
Gaillard, G., 215
Gaines, A. M., 85, 254, 573, 574, 575, 576, 577, 578, 582, 796, 908
Galal, A., 286
Galindo-Gonzalez, S., 805
Gallardo, F. J., T248
Gallardo, M. R., M143., M144
Gallegos-Acevedo, M. A., T260
Galletti, S., 653, T88, W166
Gallo, B. B., 461
Galton, D. M., 787, W130
Galvano, F., W272
Galvao, K. N., 74, 101, 586, 633, W96
Galyean, M. L., 474, W150
Gama, M. A. S., 625, T131
Gambacorta, G., T160
Gambacorta, M., M58
Gamboni, A. M., 961
Gamroth, M., 386
Gandy, S., W231
Gantt, D. T., 216, T137, T190, T220
Gao, W., T199
Gao, Y., T58, T59
Garbe, J. R., 362, 366, W253, W257
Garcia, A., T164
Garcia, A. D., 946, M214
Garcia, A. R., 460, 820
García, D., 236
Garcia, H. G., T244
García, I., M184
García, J. A., T203, M59
Garcia, J. J., 717
Garcia, M. D., M249, W264
Garcia, R., M205
Garcia-Macias, J. A., T146
Garcia-Manzanilla, E., M96
Garcia-Palestina, L., W160
Garcia-Peniche, T. B., 214
Gardea, A. A., T287
Gargallo, S., T197, T211
Garikipati, D., 166
Garimella Purna, S. K., 45
Garín, D., W153
Garlich, J. D., 456
Garner, J. P., 24
Garnsworthy, P. C., 625
Garrett, J. E., 854
Garrett, W. M., T149
Garrick, D. J., 368, 651, 887, 890, 893
Garry, F. B., 260, 521
Gasa, J., W79
Gaskins, C. T., 154
Gasser, C. L., 102
Gates, K. W., M191
Gates, R. S., 192
Gatta, P. P., M112
Gaughan, J., 601
Gauly, M., T259
Gavao, K. N., W236
Gay, L. S., 80
Gbur, Jr., E. E., M17
Geary, T. W., 99, W222, W223
Gebrelul, S., W170
Gehring, A. D., M300
Geisert, B. G, 473
Geisert, R. D., 774
Gelbert, G., 364
Geng, A., 833
Genovese, K. J., 16, 201, 706, 718
Gentry, L. R., T190
Gentry, P. C., 222, 788, 929, T141
George, B., W10, W24, W39, W40
George, J., T166
Gerard, P. D., 127, 141, 304
Gerdes, R., W284
Gernat, A. G., M297, T13
Gerrard, D. E., 241, M72, W261
Gerrits, W. J. J., 400, 616, T192, W209
Gerung, A., T271
Getz, J. E., 568
Getz, W. R., W161
Getzewich, K. E., 534
Ghasemi, S., 614
Ghatak, P. K., T290
Ghatei, M. A., 13
Ghirardi, J. J., 263, W153
Giani, P. A., M103, M108
Gianola, D., 33, 39
Gibb, D. J., M161
Giesen, A. F., W53
Giesting, D. W., M100
Giesy, R., T264
Giguère, A., M78, W77
Gil, M., T57
Gilbert, H., 752
Gilbert, R. O., 585
Gill, C. A., 882, 884
Gill, M., 871
Gillespie, J. M., M155
Ginestet, A., 49
Gipson, T. A., W174, W176, W177, W180
Girard, C. L., 618, M192, M194, W106
Girard, I. D., 848
Girdhar, S. R., W45
Glaze, B., 726
Glenn, M. E., M82
Gnad, D. P., 156, T180
Goddard, J., 555
Goddard, M., 779, 780
Godden, S. M., 199
Godfrey, R. W., 429, 922, 923, W251
Godwin, J. L., M297, T13
Goetsch, A. L., W174, W175, W176, W177, W178, W179, W180, W181
Goff, D., 81
Goff, J. P., 513, 518, 797, 798
Gokavi, S., T282, W292, W293
Golbach, J. L, M304, 123
Goldade, B. G., 454, 772, 773
Golden, C. D., 31, 4011
Golden, J. W., 161, 727, 728
Gomes, J. D. F., W62, W63
Gonda, M. G., 750
Gong, J., W61, W252
Gonzalez, B., M123
Gonzalez, E., W241
González, E., M199
González, J., W29
González, J. C., 94, M90, T145
González, L., M157, W188
Gonzalez, R., 520
González, S. S., M180, W103
González-Alvarado, J. M., 835, W41
Gonzalez-Esquerra, R., 811, 816, 817
González-Luna, G., W103
Gonzalez Sanchez, E., T52
Good, E. J., 331
Goodband, R. D., 359, 570, 571, 914
Goodling, R. C., 530
Gooijer, L., 517
Gorden, P. J., M252
Gordon, L., 238
Gore, P. J., M265
Goshen, T., 931
Gosselin, B., M230
Gottfredson, R. G., 641
Gottlob, R. O., 570
Gottwald, A., M308
Gous, R. M., 813
Govindasamy-Lucey, S., 550
Govoni, K. E., T132
Graber, J. D., 391
Gracia, M. I., 253, 673, 679, 680, M90, M105, W17, W37, W51, W78
Grager, C. D., 717
Grandison, A. S., W94
Grant, A. C., 775
Grant, A. L., 241, M72
Grant, R. J., 393, 619, 945, T62
Grapes, L., 898
Graser, H-U., W263
Graulet, B., T231
Graves, K., 660, 928, W219., W237
Graves, W. M., 219, 589, W211
Gray, B. T., T181
Gray, K. R., 104
Green, J. A., T148, W218
Green, J. T., 52, M146
Green, M. P., M267
Greene, L. W., 158, M163, T178
Greene, W. A., W243
Greenquist, M. A., 331, W274
Greenwood, P. L, 399, 722
Gregor, D. L., W224
Gregoret, R. F., M143, M144
Gregory, D. J., M60, T161
Gregory, K. E., 888
Greiner, S. P., 640
Grexton, B., 514
Griel, Jr., L. C., 658, M262
Grieshop, C. M., 250, 377, T43, W70
Griffin, A. S., 866, 867
Griffin, L. D., 496
Griffith, R., 451
Griinari, J. M., 625, 777
Griinari, M. J., 622, W93, W94
Grilli, E., W49
Grimes, J. L., M284, M297, T13, T105
Griswold, K. E., 624, 912, 913, W66
Groenen, M. A. M., 905
Groesbeck, C. N., 570, 914
Grohs, D. L., T156
Grosz, M. D., 897, W267, W268
Grout, A. S., M173
Gruen, I. U., 760
Grum, D. E., 102
Grummer, R. R., W97, W123
Guarnieri, P. D., M50, M51
Guemez, H. R., T36, T37
Guenter, W., T19
Guenther, K. L., M292
Guex, G., 231
Guinan, M. J., 638
Gulati, S. K., 622, 635
Gulay, M. S., M212, T77, T121, T123, T164, W119
Gundelly, R. K., M34
Gunsaulis, J. L., M119
Gunter, S. A., 394, 841
Gunter, T. G., 10
Guo, J., 70
Guo, M., T282, T296, W282, W292, W293
Guo, Y., 826, 833
Gustafson, L., 439
Guthrie, T. A., 912
Gutiérrez, A., W50
Gutta, V. R., W161
Guyot, T., 343
Guzik, A. C., 580
Gwazdauskas, F. C., W159
Gwin, L., T10
Gyenai, K., T69
Gyenis, B., T1, T3, W280

H

Ha, D. M., M239
Ha, J. M., W262
Haan, M., 563
Hachmeister, K. A., 331
Hacker, R. R., T58, T59
Hadley, G., 960
Hadsell, D. L., T166
Hafliger III, H. C., 609, 617, 623, W84
Hafs, H. D., W224
Hagemann, L., T31
Hahn, J. D., 242, 404, 405, T48
Halachmi, I., 600
Halbert, L. W., 199
Halbrook, E. A., M92
Halfliger, H. C., 929
Hall, J., 555
Hall, J. B., 417
Hall, M. B., 937

Hallford, D. M., M249, W264
Halupnik, T., 312
Hamadeh, S. K., M217
Hammer, C. J., 376
Hammon, D. S., 513, M263, T80
Hammond, A. C., T144
Hammond, A. J., M255
Hampe, J., 661, W207
Hampton, T., 811
Han, E. M., T292
Han, H.-C., T147, T234
Han, Y., W252
Han, Y. K., W11, W30
Hanafy, A. M., T110
Hanford, K. J., 746
Hanigan, M. D., 358
Hankins, S. L., 915
Hanner, T., W171, W172
Hannon, K. H., M72
Hansen, L. B., 41, 67, 385, 524, 527, 535, W205
Hansen, P. J., 103, M14, M250
Hansen, S., M105
Hansen, S. A., 242, 404, 405, T48
Hansen, S. L., 469, 470
Hansen, T. R., T147, T234
Hansen, W. P., 527
Hanson, K. C., M179
Hanus, L. H., 205
Hardin, R. S, 696, M304
Harding, R. B., M203
Hargis, B. M., 109, 110, 111, 114, 128, M290, M292
Hargrave, K. M., 776
Harlizius, B., 905
Harmon, B., 244, 245, 246
Harmon, D. L., 483, M179, T226
Harmoney, K. R., W235
Harner, III, J. P., 177, 596, 597, 598
Harp, R., M141
Harper, A. F., 594, 909, 918
Harper, G. S., 239, 722
Harper, O. F., 555, 556
Harper, W. J., W141
Harrell, R. H., M97
Harris, A., W170
Harris, L. J., M209, T218
Harris, M. A., M246
Harris, P. A., 75, 76, 80
Harris, T., T70
Harrison, G. A., M200, M201
Harrison, J. H., 342, 386, 387, 606, M140
Harrison, K. E., M244, M245
Harrison, K. F., 58, 59
Harrison, M. A., 323, 324
Hart, K. J., 944
Hart, S., W178
Harte, B. R., T289
Harter-Dennis, J., 437
Hartnell, G. F., W10, W39, W40
Hartschuh, J., W266
Harvatine, K. J., 628, 629, W95
Harvey, R. B., 16, 201, 706
Harwick, K. E., 974
Hasegawa, M., M67, M68
Hashim, I. B., W297
Haskell, J. K., T80, W190
Hassan, A. N., T301, W290
Hassanat, F., 395, 396
Hassen, A., 891
Hastad, C. W., 570
Hastings, D. L., 624
Hathaway, M. R., T152, T153, T154
Hatipoglu, F. S., M212
Hatler, T. B., M270, M271, W225
Haugen, H. L., M218, T207
Hauser, A. E., T83
Hausman, G. J., M259, M261, T151
Havstad, K. M., M136
Hawkes, R., 89
Hayen, M. J., T77, T121, T123, T164, W119
Hayes, D., 720
Hayes, S. H., M270, M271, W73
Hazel, A. R., 967
He, J., T35, W69
Head, H. H., T77, T121, T123, T164, W119
Healey, M. H., M8
Healy, H.-P., 379, 380
Hearnshaw, H., 399, 722
Heber, A. J., 191
Hebert, K., T19
Heck, T. L., 224, 954
Hedges, J., 404, T48
Hedlund, C., 379
Heinrichs, A. J., 210, T189
Heins, B. J., 41, 385, 524, 527, 535
Heitmann, R. N., 662, W202
Heitschmidt, G. W., M301
Hekmat, S., W285, W286
Hellman, J. M., 508
Hemmingsen, S. M., 454
Henderson, D. A., 929, T141
Henderson, S. N., 109, 114
Hendrick, S. H., T78
Henk, W. G., 379
Henley, J. C., 564
Hennessy, D. W., 399, 722
Hennig, U., T56
Henning, D. R., 184, 959
Henning, W. R., T4
Henrique Bevitori Kling de Moraes, E., W83
Henry, B. J., W67
Hensley, M. J., 451
Heravi Moussavi, A., 585
Herd, R. M., 883, W263
Hererra, P., M278, M289
Herlihy, M., 526
Hermann, J. R., 719
Hermas, S., 650
Hernández, A., M180
Hernández, J., T6, T7
Hernández-Cerón, J., M250
Hernández-Jover, M., 263, W153
Hernández-Sánchez, D., M180
Hernandez-Sanchez, H., W291
Herpai, Z., T283
Herrera, P., 130, M234, M279, T85
Herring, A. D., 882, 884
Herring, W. O., 753, 906
Hersom, M. J., 723, 774
Hervas, G., 622
Herzog, W., 231
Hess, B. W., 478, 687, 836, T234
Hess, J. B., 143, 268, 269, M306
Hess, T. M., 80
Hester, P. Y., 266, 303, 312, 444, T113
Hewitt, D. G., 592
Hewson, S., T297
Heyen, D. W., 744
Heyler, K. S., 848
Heymann, H., 760
Heywood, N., T109
Hickey, M. C., 875
Hidaka, S., M67
Hiemke, C. J., 641
Hiett, K. L., 274, M294
Higginbotham, G. E., 381, T267
Higgins, J. P., 136, T99
Higgins, S. E., 108, 110, M292
Hill, G. M., 589, 802, 803
Hill, J. E., 454
Hill, K. M., T266
Hill, M., 689, 690, 691
Hill, R. A., 726
Hilty, B. J., 261, 384
Himmelberg, L. V., 361
Hindle, V. A., 938
Hinds, K., W267
Hinds, M., W65
Hinostroza, A., M126
Hinson, R. B., 87, 244, 245, 246, 801
Hinton, Jr., A., 315, W38
Hippen, A. R., 850, 946, 947, M214, W98, W120
Hirschler, E. M, 696
Hoagland, T. A., 78, T132
Hockett, M. E., 52
Hockney, J., 964
Hodges, J., 347, 645
Hodgkinson, A. J., T170
Hoe, F., 66
Hoehler, D., 810
Hofacre, C. L., 279, 280
Hoffman, J. B., 307
Hoffman, R., 75
Hofig Ramos, J. R., 894, M23
Hofman, R., 507
Hogan, K. A., T167
Hogberg, M. G., 349
Hogeg, M., 931, W214
Hohmann, K. J., T169
Hokiyama, H., M68
Holden, L. A., 261, 382, 384
Holl, J., 896
Holland, M. S., 496
Holland, R. E., 496
Holliman, J. S., 113
Hollis, G. R., 251
Holman, A. J., W286
Holmes, C. W., M265
Holt, A., M81
Holt, K. M., M248
Holt, P. S., 279, 280, M275
Holt, S. M., 601, 724
Holtrop, G., 355
Holyoak, G. R., M263, T80
Honeymann, M. S., 349
Hong, J. W., M107, T54, W11, W30
Hong, S.-H., M120, M198
Honma, T., M68
Hooge, D. M., 675, 831
Hoover, W. H., 619
Hope, J., T79
Hopkins, F. M., 593
Hopkins-Shoemaker, C., 655, W169
Hopper, R. M., 693
Horan, B., 537
Horey, C., T96
Hori, T., M68
Horn, G. W., 721, 723
Horne, D. S., T276
Horne, J., 544
Horne, W. J., M74
Horsley, B. R., 594
Horst, R. L., 518
Horstman, L. A., 155
Horufi, A., W300
Hosseini, A. M., W28
Hossner, K. L., 202
Houkiyama, H., M67
House, J. D., T19
Hovey, R. C., 221, 352, T125, T139
Hreha, A., T151
Hristov, A. N., 386, 953, M195, M215, W89
Hruby, M., W22
Hsiao, H.-Y., 670, 671
Hu, Q. S., W242
Hu, W., M193, M221
Huang, M. C., M39
Huang, R., W252
Huang, Y.-W., 756
Hubbard, P. L., M308
Hubbell, III, D. S., 58, 59
Huber, J. T., T244
Huber, K., 953
Huck, J. R., T296
Hucker, A., T2
Huff, G. R., 17, 129, T86
Huff, W. E., 17, 129, T86
Huff-Lonergan, E., 911, M54, M55
Huffman, K., 276
Hughes, L. D., 961
Huh, C. S., W288
Huhtanen, P., 948, W93
Huiatt, T. W., T117
Hulbert, L. E., 508, W197
Hulet, R. M., 265, 266
Hulland, C. C. M., T81
Hume, J. A., 832
Hummel, A., 353
Humpherson, P. G., 95
Humphrey, B. D., 284, 862
Humphries, D. J., 622, W94, W117
Humphry, J. B., 58, 59, M119
Hunst, P., W65
Hunt, C. W., 327, 726, 953
Hunter, K. H., 565
Hunter, M. G., M255
Huntington, G., 560, 561
Huntington, J. A., 944
Hurd, H. S., 720
Hurley, D. J., T63
Hurlock, W. L., 198
Hussain, I., 131, 132, 133, 285
Hussein, A. S., W35
Huston, J. E., W139
Husvéth, F., W122
Hutcheson, D. P., 264, 604, 808
Hutcheson, J. P., 730, W145, W148
Hutchison, C. F., T190
Hutchison, J. L., 738, M225
Hutchison, S., 394, M75, M76

Hutterer, F., 814
Hwang, J. H., T294
Hyde, J., 261, 382
Hymes-Fecht, U. C., 391
Hyun, Y., W10, W39, W40

I

Iacono, C. M., 876, 878
Ibáñez, C., W71
Ibrahim, S. A., W276, W277, W279, W283, W294, W296
Ida, E. I., M50, M51
Iglesias, C., W182
Ilahi, H., 32
Ilsley, S., 794
Imumorin, I. G., 747, M7
Infante-Gil, S., W103
Ingram, K. D., 315
Inskeep, E. K., 636
Interrante, S. M., 809
Ip, C., 789
Ipharraguerre, I. R., 338, 339, 356, T206, T241
Iqbal, M., 134, 135, 136, 753, T99, T100, T163
Iqbal, M. J., W66
Ishekhumen, O., T69
Ishiwata, T., 874, T159, W147, W187
Ishizaki, S., W133
Ishler, V. A., W138
Ismail, H., 147
Iturbe, F. A., M64
Ivan, S. K., M218, T207
Iwaisaki, H., M16, M21
Iyayi, E. A., W52

J

Jackson, J. A., 72, 217
Jackson, J. R., 488
Jackson, M. E., 670, 671
Jackson, S. P., 240
Jacobson, B. N., 624
Jacoby, S., 931, W214
Jacot, S., 231
Jaeggi, J. J., 550, T274
Jae-Kyoung, K., M94
Jae-Yong, C., M94
Jakobsen, J. H., 731
Jalal, M. A., 678
James, B. W., 570
James, R. L., 670
Jameson, G. B., 84, M307
Jamison, W. V., 182
Jamrozik, J., 736
Jang, I. S., W46
Janicki, K., W73
Janovick, N. A., 854, 926, T133, T135
Jansen, G., 736
Jansen, J., 502
Jardon, P. W., 849, T224, W120
Jarquin, R. L., 109, 111, 114, 128
Jarvie, B. D., 711
Jarvis, G. N., 334
Jaster, E. H., 962, T188
Jaurena, G., T232
Jayant, L., M94
Jaykus, L., 319
Jefferson, L., W194
Jefferson, L. S., 766, 767
Jeffs, L. L., W113
Jendza, J. A., T47
Jenkins, M., T90
Jenkins, T. C., T138, T195, W99
Jennings, J. A., M122
Jennings, T. D., W154
Jensen, H., 609
Jeon, B. J., W298
Jeon, I. J., T278, T279
Jerred, M.J., W136
Jerry, D. J., 354
Ji, F., 247, 792, 793, W75
Jiang, H., T142, T143
Jiménez-Flores, R., 82, 84
Jimenez-Moreno, E., W41
Jin, E. J., T155
Jin, F. L., 671
Ji-Soon, Y., M94
Joern, B. C., M147
Johannsen, S. A., 451
Johnson VanWieringen, L., 606
Johnson, B. J., 863
Johnson, D. D., M20
Johnson, D. E., T185
Johnson, D. G., 527
Johnson, E. C., T188
Johnson, K. A., 154, 602, T185
Johnson, M. E., 538, 550, T276
Johnson, M. G., T86
Johnson, R., 233, 876, 878, W61
Johnson, R. K., 896
Johnson, S. K., W222, W223, W235
Johnson, T. A., 712
Johnson, Z. B., 234, 235, 252, 753, M13, M17, M73, M92, M231, W157, W181
Johnston, D. J., 883, W263
Johnston, M. E., 582
Jones, D., 933, W131
Jones, D. A., M191
Jones, D. R., 322, 323, 324, M46, M47
Jones, E. F., T132
Jones, G. F., 860
Jones, J., T40
Jones, K. L., 913, W66
Jones, R. N., 720
Jones, S. J., T157, T158
Jones, S. T., T270
Jones, W., 655
Jong Suh, S., M162, M164
Jordan, K.M., 636
Jorge, A. M., M61, M62, M63, M69, M185
José, A. A. F. B. V., T131
Joseph, J., W178
Jousan, F. D., 103, M250
Jowett, P., 379
Joyce, D , 639
Juarez, F., T254, T255
Juárez-Reyes, A. S., T253, W164, W165
Juchem, S. O., 74, 101, 586, 633, W96, W236
Jung, H. G., 397
Jung, Y. K., W11
Jung, Y. S., 16
Jung-Ho, Y., M94
Jungk, R. A., 290
Jurkevich, A., T111
Justin, A. L., 947

K

Kachman, S. D., 27, 367, 746
Kadarmideen, H. N., 32, 36, 864, M165, T65, T66, T67
Kaiser, M., 719
Kajikawa, H., T196, W133
Kalbe, C., T56, 667, 830, 834, W26
Kaletunc, G., 151
Kalm, E., 901, W254
Kalmbacher, R. S., 805, 850, 946, 947, M214, W98
Kamanga-Sollo, E. I., T152, T153, T154
Kamel, C., 794, T201, 940
Kamyab, A., W28
Kanawjia, S., 765, T298
Kanderka, A. D., M300
Kaneene, J. B., 199
Kang, J., T293
Kannan, G., W161 541 761 T286 T288
Kappel, L. C., 379, 380
Karabasil, N., M288
Karakas Oguz, F., M212
Karavan, F., M233
Karcher, D. M., 770
Karnati, S. K. R., 939
Karnezos, P., M131, M242
Karr, K. J., 730, W148
Karr-Lilienthal, L. K., T43, W70
Karunanandaa, K., W10, W39, W40
Kastelic, J. P., W216
Kastner, D. W., 591
Katoh, S., 757, 758
Kattapan, P., W240
Kattesh, H. G., 512
Katz, M., W118
Kauf, A. C. W., 658, 958
Kaufmann, C., T35, W69
Kautz, W. P., 853
Kawai, Y., 757, 758
Kawamura, A., T196
Kay, J. K., 73, 479, 777, 929
Kaylegian, K. E., 46
Kazmer, G. W., T132
Kebe, S. H., 656
Kebreab, E., 663
Kegley, E. B., M75, M76, M231
Kehoe, S. I., T73, T74, T189
Kehrli, M. E., 35
Keirs, R. W., 141
Keisler, D. H., 154, 589, 590, 632, 717, 927, M249
Keller, W. L., 215
Kellogg, D. W., 841, M17, M231, W157
Kelly, D. T., 801
Kelly, G., 399
Kelm, S. C., 35, 968
Kelton, D. F., 514, 522, T78
Kemp, G. K., M285, M295
Kendall, C., W110
Kendall, D. C., 248
Kendall, D. K., T188
Kendall, P. E., 500, T172
Kenny, D. A., 95, 98, 422
Kensinger, R. S., 658, 958
Keown, J. F., 27
Kerley, M. S., 160, 161, 725, 727, 728, W124, W125, W278, 855
Kerr, B. J., 580, 581, 818, W4, W12
Kerth, C. R., 232, 655, W169
Kesler, D. J., W222, W223
Kessen, T. J., 331
Kessler, A. M., 461, 810
Kevin, B., 533
Key, J. P., 553
Khalil, A. H., W297
Khan, Q. M., 131, 132, 133
Khanal, R. C., W90, W92
Khidr, R., 814
Kidd, M. T., 304, 459, 818, 821, M299, T94, W4, W6, W12
Kilgour, R. J., 874
Kim, B., M130
Kim, D., M35
Kim, D. H., M239
Kim, H. S., M107, W288
Kim, I. A., T155
Kim, I. H., M95, M104, M107, T54, T55, W11, W30
Kim, J. D., M95
Kim, J. G., M109, M258, T41, T42, W295
Kim, J.-G., T148
Kim, J. H., M104, M107, M182, M222, T54, T55, T293
Kim, J.-J., 747, 749, 904
Kim, K. S., 748
Kim, N., M35
Kim, S., 668, 672, M35, W140
Kim, S. C., M182, M222, T212
Kim, S. H., T292, T293, W295
Kim, S. W., 247, 792, 793, W75
Kim, T. W., 408, W72
Kim, W. K., 463, 644, M278, M279, M288, M289, M293, M234
Kim, Y. G., 793, W75
Kim, Y. K., T184, T193
Kimball, S. R., 766, 767
Kincaid, R. L., 166, 342, 386, 602, 606, M195
Kindstedt, P. S., 62, 188
King, A. J., 710
Kinsel, M. L., 256, W248
Kirk, J. H., 381, 383
Kirkpatrick, B. W., 750, M260
Kirkpatrick, D., 795
Kirschenmann, F. L., 349
Kissel, D. E., M302
Kistemaker, G., 733
Kitazawa, H., 757, 758
Kittendorf, K. E., M116
Kitts, S. E., M165, M168, T226
Kiupel, M., 495
Klasing, K. C., 284, T91, 862
Kleiboeker, S. B., 717
Klein, M., 843
Klein, T., 726
Kleinman, P. J., 266
Kleinschmit, D. H., 211
Kliem, K., 345, 346
Klindt, J., M12
Klopfenstein, T. J, 329, 330, 332, 357, 473, 936, M218, T207
Klotz, J. L., 662, W202

Knap, P. W., 174
Knapp, J., T230
Kniffen, D. M., T4, W221
Knight, C. D., 574, 576, 577, 811, 816, 817
Knight, J. W., 594, 918
Knight, T. J., T126
Knights, M., 636, 921
Knowlton, K. F., 961
Knox, R. V., M15
Ko, T. G., 408
Ko, Y. D., M182, M222
Ko, Y. H., M39, W46
Koch, J. M., 302
Koch, R. M., 888
Kocher, A., 379, 380, M224, W78
Kocher, M. E., M240
Koelkebeck, K. W., 322, 681
Koelsch, R., 7
Koenig, K. M., T186
Koga, T., W133
Kohn, R. A., 70, 208, 358, T223
Kojima, F. N., 189, 414, 415
Kolath, S. J., 587, T130
Kolath, W. H, 161, 728
Kolver, E. S., 334, 479
Kong, S. H., T279
Konjufca, V., 281
Kononoff, P. J., 206
Koohmaraie, M., 888
Koopmans, S. J., 791
Korver, D. R., 466
Kotrola, N., W270, W271
Kott, R. W., 649
Kouakou, B., W161
Koudele, K. A., W186
Kouki, K., 742
Koutsos, E., 668, 672
Koutsos, E. A., 120, 862
Kovács, A., T283
Kovalev, Y. N., 707
Kovar, J., 563
Kozhina, E. M., 130, T85
Kraeling, R. R., 196, M259, M261
Krasucki, W., 791
Krász, A., T284
Kratzer, D. D., 816, 817
Krause, K. M., W115
Krawczel, P., 876, 878, 879
Kreager, K. S., 677
Kreausukon, K., 424, 425, W240, W249
Krebs, N., 510, 511
Krehbiel, C. R., 721, 723, 774, W181
Kreider, D., 416
Kremer, K. S., 11
Kreuder, A., T126
Kristensen, N. B., 483, T226
Kronfeld, D. S., 75, 76, 77, 80
Krueger, N. A., 612, 615, M178
Krueger, W. F., 435, M178
Kubena, L. F., 105, M234, M276, M278, M279, M289
Kuber, P. S., 726
Kubo, C., 957
Kuchida, K., M67, M68
Kuck, A. L., 35
Kudriavtseva, T. Y., 707
Kuehn, L. A., 649
Kuenzel, W. J., 311, T111
Kuhl, Jr., H. J., 677
Kuhn, G., 398, T56
Kuhn, M. T., 738, M225
Kuhn-Sherlock, B., T297
Kumar, D., 632, 857
Kumpula, B. L., 267
Kundinger, M. M., 19, 112, 696, M304
Kuney, D. R., 322
Kung, Jr., L., 211, 212, M188
Kurtyka, L., W64
Kurz, M. W, 729
Kutz, B. R., 234, 235
Kuzmuk, K. N., 374
Kwak, H. S., T291, T292, T293, T294, T295, W298
Kwon, O. S., M95, M104, M107, T54, T55, W11, W30
Kwon, Y. M., M34

L

Lázaro, R., 835, 910, M52, M53, W41
Laarveld, B., 289, 772
Lacasse, P., T171
Lachica, M., T52
Lacroix, R., M230, W208
Ladd, J. M., 211
Ladely, S., 196
Ladely, S. R., M44
Ladokun, O. A., 686
Ladyman, K., 160
Laesch, C. J., M221
Lafont, C., 509
Laforest, J.-P., W77
Lafreniére, C., 688
Lake, S. L., 478, 687
Lalman, D., 553
Lalman, D. L., 554
Lamb, B. K., 602
Lamb, G. C., 475, 804, M237, W222, W223
Lamberson, W. R., 587, 927
Lambert, B. D., T225
Lampe, J. F., 907
Lampreave, F, 505
Lan, Y., W161
Lana, R. P., T238, T239, W87
Lancaster, J. A. S., 390
Lancaster, P., W80
Landblom, D. G., W223
Lanna, D. P. D., 625, M166, M167, T131, W87, W112, W155
Lanyon, L. E., 559, W138
Lanzas, C., 621
Lapierre, H., 170, 355, M213, T224
Lardy, G. P., 837
Larsen, L., 429
Larson, B. T., 488
Larson, C. C., 937
Larson, C. K., 467
Larson, J. E., M237, W222, W223
Larson, R. L., 485, 717
Lassiter, K., 134, T99, T100
Latorre, M. A., 910
Latour, M. A., 238, 800, T113
Lauer, J. G., T214, T215
Laughlin, K., 503
Lauterbach, E. A., 158
Lavon, Y., 931, W214
Lavorgna, M. W., 124
Lawler, D. F., 488
Lawlor, P. G., 572
Lawlor, T. J., 732
Lawrence, B. V., 242, 404, 405, T48
Lawrence, J. D., 180, 484
Lawrence, J. J., M300
Lawrence, J. L., 97
Lawrence, K. C., M301
Lawrence, K. R., 570
Lawrence, L., 702, W73
Lay, Jr., D. C., 302, 512, T101
Lay, J., T163
Leão, M. I., M215
Lean, I. J., 845, 846, 847
Le Bellego, L., 583, 814, 822, M78
LeBlanc, S., 515, 517
Lechtenberg, K. F., W274
Ledoux, D. R., 300, 823, W33
Ledwith, D. , 786
Lee, C. Y., M239, T155, W46
Lee, E. J., 147, M45
Lee, F. L., T282, T296, W282
Lee, G. H., M109
Lee, H. S., T41, T42
Lee, J. H., 548, T303, W100
Lee, J. K., 780
Lee, J. T., M280
Lee, J.-W., T79
Lee, M. D., M222
Lee, M.-R., 538
Lee, S. C., T184, T193
Lee, S. J., T291
Lee, S. W., W262
Lee, W. B., M104, M107, T54, T55, W11, W30
Lee, W. J., 64
Lee, Y. P., M39
Leek, A. G. B., T32
Lee-Rutherford, L., M259, M261
Leese, H. J., 95
Leeson, S., 663, W74
Lefebvre, D. M., M230, W208
LeFloc'h, N., M78
Le Gallais, A., W117
Legarra, A., 369
Legleiter, L. R., 469, 470, 471
Lehmkuhler, J. W., M176, T183
Lehrer, H., W118
Lehtola, P. S., 63, 539
Lei, X. G., 408, W72
Leibfried-Rutledge, M. L., 427, W213
Leighton, E., 648
Leite, J. I. A., T33
Leitgeb, R., 814
Leitner, G., 931
Lema, M., M117
Leme, P. R., 625, M66, M166, M167
Lemenager, R. P., 155
Lemme, A., 810, 819
Lemos, E. W., 633
Lenehan, N. A., 570, 571, W144
Lengyel, Z., W146
Leo, M. I., W87
Leonardi, C., M210
le Roux, C. W., 13
Leslie, K. E., 514, 515, 516, 517, 522, 711, T78
Lessard, M., 170, M78
Lester, T., 416
Leung, F. C., 445
Leury, B. J., W135
Leus, M., 49
Levchuk, V. P., 707
Levy, G. L., 390
Lew, B. J., 659
Lewin, H. A, 744, 365, 926, T133, T134, T135, T136, W256
Lewis, A. W., 335, 433, 924
Lewis, J., M125
Lewis, M. R., T22
Lewis, S. J., 320
Leymaster, K. A., 647, 895
Li, C., 864, T67
Li, D., M85
Li, J., W292, W293
Li, X., M277
Liang, X., T23
Libby, D., W171, W172
Liboni, M., T77, T121, T123, T164, W119
Licitra, G., 544, 546
Lien, R. J., 143, 269
Liesman, J. S., 499, 659
Lightfoot, D. A., W66
Lilburn, M. S., 151, 273, 275, 276, 277, 457, 458
Lim, H. J., W295
Lim, K. S., W288
Lim, T., 191
Lima de Souza, A., M205, W83
Lima, J. A. F., M87, M88, M91, M93, T33, T34, T38, T39, T44, T51
Lima, M., W105
Lin, J., M113, M116, M125
Lin, T. Y., 550
Lin, X., M80
Lincoln, L. M., 201, 718
Lindemann, M. D., 96, 296, 409, 410, 912, W34
Liñeiro, M., T241
Linke, P. L., W120
Linn, J. G., 162, 527, 941
Lippke, H., M129
Lipscomb, R. M., 198
Lissemore, K. D., 514, T78
Litherland, N. B., 630, 631
Littell, R. C., 615, 797, 798
Liu, C. W., 766, 767
Liu, F., M33, T15, T23, T29, W21, W55, W59
Liu, H.-K., 308, T108
Liu, M., M71
Liu, Z. L., W256
Llewellyn, D. A., T181
Lloyd, K. E., 469, 470, 471, M172
Lobley, G. E., 170, 355
Löbo, R. B., M23
Locatelli, M. L., 819
Lock, A. L., 209, 789, T302, W91
Loe, E. R., 331
Loerch, S. C., M216
Loetz, E. R., W175
Loewer, M., 922, 923
Lofgren, D. L., 30, 31
Logato, P. V. R., M88, M91, T33
Lohrmann, T. T., W10
Lohuis, M. M., 897, 901, W254
Loibner, A. P., 3

Lolli, S., M228
Lombard, J. E., 258, 259, 260
Lomeli, J. J., W2
London, N. R., 366, 755
Lonergan, S. M., 718, M54, M55
Long, K. L., 403
Long, N. M., 589
Long, T. E., T305
Loo, T. S., 84, M307
Looft, C., 901
Looney, C. R., W233
Looper, M. L., 53, 57, 401, 402, W175
Loor, J. J., 365, 926, T133, T134, T135, T136
Lopez, H., M256
Lopez, J. A., T146
Lopez, J. L., W241
Lopez, M., T140
Lopez, M. A., T263, W163
Lopez, R. E., T247
López-Bote, C., 94, W51
Lopez-Carlos, M. A., T260
Lopez-Mungia, A., T118
Lordelo, M. M., 447
Losa, R., 211, 674, T200, W86, W88
Losi, T., 394
Losso, J. N., T270
Lott, B. D., M296
Loureno, A. J., W82
Love, B., M291
Love, N. G., 961
Loveday, H. D., 472, M73
Lovejoy, J. C., 216
Lowe, E. K., 82
Lowe, G. D., M216
Lowe, J. F., M15
Loza, P. L, 329, 332
Lu, J., T119, T120
Lu, S., 354
Lucey, J. A., 61, 64, 538, 543, 549, 550, 551, T274, T276, T285
Luchiari-Filho, A., M66
Luchini, D., 74, 586, 633, W90, W96
Lucy, M. C., 414, 418, 587, 855, 927, 930, M265, T122, T127, T130, T143, T144, T148, W124, W125
Ludden, P. A., 478, 836
Luebbe, M. K., 473
Luginbuhl, G. H., T87
Luginbuhl, J.-M., 336
Luimes, P. H., T222
Lukas, J., 256, W248
Lumpkins, B. L., T21
Lunn, D. E., W116
Lunt, D. K., M77
Luo, W. X., M251
Lupoli, B., 622, W94
Lupton, C. J., 868, M235
Luth, B., 185
Lynch, J. E., 211
Lynch, J. M., T302
Lynch, P. B., 572
Lyons, B., 971
Lyvers Peffer, P., M80

M

Mabry, J. W., 406
MacAlpine, M., 607
Macciotta, N. P. P., 28
MacDonald, J. C, 473
Macdonald, K. A., M229, M265
Macedo, R. M. G., M51
Macedo, R. P., M66
Macfarlane, B. J., W220, W229
Macfarlane, M. W., W220, W229
Maciel, A. B. B., M269, W228
MacIsaac, J. L., 142, 313
Macken, C. N., 330
Mackenzie, A. M., 637, 880, T22
MacKenzie, M. E., 313
Macklin, K. S., 318
MacNeil, M. D., 99
Maddock, K. R., M55
Madec, I., 509, 920
Madeira, B., W111
Mader, T. L., W242
Madrid, S. I., M14
Madsen, S. A., 865
Maduko, C. O., 756, T280
Magallanes, M. G., T263
Magee, D., W244
Magliaro, A. L., 658, 958
Magnabosco, A. C., M171
Magnabosco, C. U., 894, M23
Magnani, L., M112
Maia, F. J., 840, T235, T236
Main, R. G., 359
Maiorano, G., M58, T160
Maiwashe, A., 368
Major, T., W146
Makled, N., M298
Malayer, J. R., 774
Maldonado, R. E., M219
Mallard, B. A., 522
Mallia, S., 544
Malone, G. W., 665
Maltecca, C., 38, 525
Maman, M., 931, W214
Manangi, M., 294
Manchisi, A., M58, T160
Mancin, G., W109
Mancl, K., 163
Mandebvu, P., 393, 619, 945
Mandell, I., 328
Manella, M. Q., T182, W82
Manicardi, F., 894, M23
Mann, G. E., 100, M255
Mansoor, M. K., 131, 132, 133
Manteca, X., M157, M223, W188
Manzo, R., T128
Mao, Y., 366, 745
Mapel, S., 335
Mapletoft, R. J., W216
Marchant-Forde, J. N., 506, 507
Marchant-Forde, R. M., 506, 507
Marchello, J. A., 777
Marchin, G. L., W144
Marcillac, N. M., 599
Marcum, Y., 379
Marcy, J. E., T305
Marini, J. C., T228
Markantonatos, X., W126
Markovic, L. E., 448
Marshall, D. L., 47
Marshall, J. K., 454, 772, 773
Marston, T. T., T181, W144
Martínez, H. R., 768
Martin, B. D., 907
Martin, G. P., 441
Martin, M. P., 912, 913, W66
Martin, S. A., 619
Martin, S. W., 522
Martineau, R., M192, M213
Martinelli, C. J., 550
Martinez Amezcua, C., 448
Martinez, D. G., 207, 228, 229
Martinez, W., M48
Martinez-Puig, D., M96
Martin-Orue, S., M96
Marton, D., W146
Marx, D., 678
Mashek, D. G., W97
Masoero, F., W58
Masood, S., 131, 132, 133
Mateo, R. D., 247
Mateos, G. G., 236, 237, 505, 835, 910, M52, M53, T145, W41
Mathew, A. G, 720
Mathews, L. A., M183
Mathialagan, N., 897, T148
Mathis, G. F., 670, 671, 675
Matlapudi, M., 608
Matos, M. C., M268
Matsler, P. M., 124
Matson, K. M., 958
Matsuda-Fugisaki, E. Y., M174
Matte, J. J., M78, M192, M194, W77
Matterson, P., T68, T69, T70, W171, W172
Matthews, D. L., 427, W213
Matthews, J. C., 375, M165, M168
Mattingly, R. M., M226
Mattos, E. C., M25
Mattos, W., W105
Mattsson, D., 372
Mauldin, J. M., M301
Maurer, J., 720
Maurice, D. V., 127
Maxwell, C. V., 54, 234, 235, 252, M92
May, G., 484, 401
May, K., 401
Mayack, M., M241
Maye, A. T., 336
Mayes, M. S., T117
Mayo, D., T264
Mazzette, A., 203
Mazzuco, H., 303
McAllister, A. J., 534
McAllister, T. A., 153, M161, T210
McBeth, L., 774
McBride, B. W., 516, 771, W116
McCann, M., M220
McCarthy, P., 249, M101
McCartney, E., 679, 680, W17
McClintock, S., 533
McCluskey, B. J., 259, 260
McCollum, III, F. T., T178
McCommon, G. W., W161
McCormack, B. L., T127, T144
McCormick, M. E., 799
McCrea, B. A., 269
McCuistion, K. C., T180
McCurdy, M. P., 721, 723
McDaniel, B. T., 529
McDaniel, C. D., 304, 305, T113, W6
McDowell, K. J., 96
McDowell, L. R., 55, M174
McElroy, A., 126
McFadden, T. B., 68, 207, 226, 228, 781, 782, 783, 784, 785, 229
McGilliard, M. L., T76
McGinley, B. C., 58, 59
McGlone, J. J., 360, 508, 510, 511, W197
McGrath, M. F., T165
McGregor, S. W., 635
McGuffey, R. K., W126
McGuire, M. A., 428, 695, T165, T174, T128
McKay, M. E., 239
McKee, L. E., 219
McKee, N. A., 143
McKee, S. R., 143, 144, 149, 269, 320, 456
McKeith, F., W266
McKinnon, J. J., 153, 224, 954, T229, W68
McLaren, C., 514
McLaughlin, A. M., 213
McLean, A. K., W211
McLeod, K. R., M165, M168, M179, T226
McLeod, S. J., 942
McMahon, D. J. , W90
McMillin, K. W., 657, 870
McMunn, K. A., 512
McMurtry, J. P., 140, 770, T112, T119
McNamara, D., W80
McNamara, J. P., W121
McNaughton, J. L., 684
McNeill, D. M., 845, 846, 847
McPhee, M. J., M236
McPherson, R., W197
McReynolds, J. L., 105, 106, M276, T8
McSweeney, P. L. H., 61
Medel, P., 94, 236, 237, 673, 679, 680, M105, T145, W50, W78
Medina, O., M184
Mee, J. F., 422, 423, 526, 537
Meek, K. I., 72, 217
Megonigal, Jr., J., 536
Megy, K., 898
Mehaffey, J. M., 144
Mehlhorn, J. E., M306
Meilahn, M. K., T216
Meinersmann, R. J., M43
Meisinger, J., 437
Melendez, P., 797, 798
Melgar, A., 953, M195, W89
Melilli, C., 546
Melo, L. Q., T187
Melton, S. L., W100
Mench, J. A., 24, 439, W195
Mende, A. H., 559
Mendes, C. Q., M160
Méndez, J., 680
Mendez, R. D., M64
Mendez, S., M65
Mendivil, O. B., 609, 623, 777, 929, W84
Mendonca, A., M45
Meng, Q., T199
Menoyo, D., W50
Merchen, N. R., 377, T43

Merkel, R. C., W174, W175, W176, W180, W181
Merks, J. W. M., 905
Mertens, C., T259
Mertens, D. R., 481, 568, 935
Mertz, K. J., M191
Messer, L. A., 897, 901, W254
Messman, M. A., W136
Metwally, M. M., 824
Metzger, L. E., 45, 50, 63, 539, 541, 547, 761, 762, T286, T288, W290
Meullenet, J.-F. C., 144, 145, 150
Meunier-Goddik, L., 60
Meyer, D., 342
Meyer, J. P., 418, 587, 927, M265
Meyer, M. J., 353, 497, T191
Meyers, C. A. B., 441
Meza, C., W162
Mgbere, O. O., 747, M7
Michael, G., 533
Michal, J. J., 154, T185
Michel, F., T138
Mickelson, S., 563
Mier-Espinosa, M. L., W291
Miglior, F., 528, 736
Mike-Schummel, I., T2
Mikus, J. H., M181
Miles, D. M., 278, 666
Millen, D. D., M61, M62, M63, M69
Miller, B. L., 713
Miller, D. N., 605, M169, T45
Miller, H., 794
Miller, J., 726, W171
Miller, L. C., 56, 472
Miller, L. R., 478
Miller, M. F., M74
Miller, N., T171
Miller, P., 226, T264
Miller, P. D., 34
Miller, R. H., 519, M11
Miller, R. K., W275
Miller, R. S., 318
Miller, S. P., 892
Miller, W. F., 596, 597
Miller-Webster, T. K., 619
Mills, J. A., 714, T61, T62
Min, B., 147
Min, B. J., M95, M104, M107, T54, T55, W11, W30
Minella, T. F., 840, T235, T236
Miner, J. L., 776
Minick, J., 886
Minton, J. E., 863
Miraei Ashtiani, S. R., M6, M9
Miranowski, J. A., 349
Mireles, Jr., A., 668, 672, 862
Mislevy, P., 805
Mistry, V. V., T301
Misztal, I., 43, 214, 369, 732, 740, 889, 906, M16, M21, M31
Mitchell, A. D., 273, 277, T116, W23
Mitchell, B., 664
Mitloehner, F. M., 9, 599
Mitran, L., 437
Mitsevich, E. V., 707
Mitsevich, I. P., 707
Mitsumori, M., T196
Miyada, V. S., M103, M108
Mizuno, R., 549
Moallem, U., 600, M254, W118
Moate, P. J., 620
Mohammadzadeh, R., W28
Mohyla, P., M285, M295, W271
Molina-Corral, F. J., T287
Molle, J. D. C., 478
Molnár, N., T1, T3, W280
Moloney, A. P., 875
Monaco, E. L., 592
Monsalve, D., T20
Montgomery, S. P., 331
Montoya-Escalante, R., T253, W164, W165
Montrose, D. M., M249
Moody, D. E., 444
Moody, L. D., T269
Moody, M. L., 965, T189
Moon, T. H., W30
Moon, Y. H., T184, T193, T222
Mooney, C. S., T208
Moorby, J. M., M202, M204, T232, W132
Moore, C. B., 310
Moore, C. E., 609, 617, 623, 929, W84
Moore, C. M., 319
Moore, D. A., 383
Moore, J. A., 336
Moore, K., W263
Moore, R. W., 105, M275
Moors, S., T56
Moradi Shahrbabak, M., M6, M9
Morales, J., 505, 253
Morales, M. S., T202
Morales, R. M., T117
Morazzoni, P., T88
Moreira, F., 419, W238
Moreno, E. J., 835
Morgan, C. W., 717
Morgan, R., 345, 346
Mori, M., T110
Morin, D. E., 227, 782
Moritz, J. S., 118, 119, 295, 302, T24, W42, W43, W44
Morlacchini, M., W18, W58
Moroni, P., 39, 652, 790
Morris, D. G., 95, 98
Morris, J., 607
Morrison, M., 939
Morrison, M. F., T300
Morrow, J. L., 508, W197
Morton, S., 590, M264
Moschini, M., W18, W58
Mosley, E. E., T174
Mosley, S. A., T165
Mould, F. L., 345, 346
Moulton, K., W237
Mount, G. H., 602
Mounter, S. A., W278
Mouro, G. F., 840, T235, T236
Mousel, M. R., 895
Mozdziak, P., 117, T30
Mroz, Z., 791
Muck, R. E., 391
Mueller, A. L., 161
Mueller, C. J., 157
Muir, J. P., M139, M141
Mullen, A. M., 748
Muller, L. D., M121
Mullinix, Jr., B. G., 589, 802
Muntifering, R., M113, M125
Muntifering, R. B., M116
Murata, K., M189
Murdach, D. W., 624
Murgas, L. D. S., M88, M93, T38, T51
Murphy, C. N., 418, T148
Murphy, J. K., 245, M282, M287
Murphy, J. P., 177
Murphy, M. R., M193, M221, T233
Murray, C., M272, M273, M283
Murrieta, C. M., M73
Murry, Jr., A. C., W38
Musgrove, M. T., 274, 314, 315, 323, 324, M46, M47
Mussard, M. L., 102
Musser, R., M92
Mustafa, A. F., 395, 396, 956, M192, M194
Muthukumarappan, K., T286, T288, T290
Mutlu, A., W143
Mutsvangwa, T., W116
Muzzi, L. A. L., T187
Mynatt, R., T151

N

Nadeau, J., 78
Nagaraja, T. G., W274
Nagle, N. J., 449
Nagorcka, B. N., 333, 842
Nahashon, S. N., M36
Nam, K., 147
Nami, M., M68
Namkung, H., M84
Nannapaneni, R., T86
Naserian, A. A., 614, M6, M9, M208, M233, T240, W108
Nathanielsz, P. W., T147
Natzke, R. P., 257
Nava, G. M., 109, 111, 114, 128, M290, T118
Nayigihugu, V., 478
Nazarala, N., T263
Neal, M., 390
Nebel, R. L., 534
Neel, J. P. S., M133, M134, M135
Neely, B. M., W221
Neely, R., M297
Neikamp, S. R., 431
Nelkie, A. R, 973
Nelson, B. K., 542, 763
Nelson, M. L., T300
Nelssen, J. L., 359, 570, 571, 914
Neme, R., M32, W20
Nemeth, M. A., W10, W39, W40
Nennich, T. D., 342, 387, 606, M140
Neuendorff, D. A., 335, 433, 924
Neuman, S. L., T113
Nevarez-Carrasco, G., T253, W164, W165
Newberry, L., M290
Newbold, J. R., W122
Newcom, D. W., 406, 860, 899, 902, 907
Newkirk, R. W., W68
Newman, K. E., 96, 379
Ng, V. W. Y., W286
Ngonyamo-Majee, D., T214, T215
Nguyen, H. V., 766, 767
Ni Cheallaigh, S., 249
Ni, J., 191, W143
Nichols, S. N., 857
Nichols, W. T., 730, W145, W148
Nicodemus, M. C., M248
Niekamp, S. R., 20, 21, 919
Nielsen, B. D., 79, M241
Nielsen, K., 959
Nielsen, M. K., 172
Niemeyer, P. L., 440
Niemeyer, P. R., 434
Nieto, M., M52, M53, T145
Nieto, R., T52
Nieves-Herrera, N., T260
Nihsen, M., 401
Nik Khah, A., M6, M9
Nisbet, D. J., 16, 105, 106, 112, 201, 706, M276, M278, M279, M288, M289, M293, W275, M234, T8
Nishimura, H., T102
Nishioka, T., T252
Nitsch, S., 3
Niu, Z., M33, T15, T23, T29, W55, W59
Nobis, W., 482
Noblet, J., 583
Nocek, J. E., 853
Noftsger, S., T221
Noftsger, S. M., 939
Nogueira, A. R. A., W62, W63
Noll, S. L., 449, W31, W32
Nonnecke, B. J., 713
Nonneman, D. J., M258
Norbaksh, R., T302
Norell, R. J., W303
Norman, A. C., M221
Norman, H. D., 42, 519, 741, M4, M225
Norris, G. E., 84, M307
Nortey, T. N., 89
Northcutt, J. K., 314, 315, 323, 324, M47
Notah, K. A., 152
Notter, D. R., 640, 649
Nousiainen, J., 948
Novak, C., T27
Noziere, P., T231
Nudda, A., 634
Nueefch, T., 610
Nuernberg, G., W85
Nuernberg, K., W85
Nueske, S., 661, W207
Nugent, III, R. A., M13
Nunez, F. A., T146
Nussio, L. G., W105
Nutt, R. H., T76
Nuty, L. C., W177
Nyachoti, C. M., 579
Nydam, D. V., 426

O

Oba, M., 204, T227, W1
Obregón, J. F., T37, T246, T247, T248, T249, T250, T251, T254, T256, T258, W2, T36, T257
O'Brien, M. L., 796, T74

O' Connell, J. M., M86, M98
O'Connor, C. I., 79, M241
O'Connor, M. L., W221, W245
O'Connor-Dennie, T., 288
Oda, S. H. I., M50
Odetallah, N. H., 669, 676
Odgaard, R., 245
Odle, J., M80, M97
O'Doherty, J. V., 249, M86, M98, M101, T32
Odongo, N. E., W116
Oelrichs, W. A., 855, W124, W125
Oetting, L. L., M103, M108, W62, W63
Oetzel, G. R., 852, W115
Ogborn, K. L., 849
Ogden, R. K., 54, M119, M122
Oguz, N., M212
Oh, H. Y., W295
Oh, S., W140
Oh, S. J., W262
Oh, Y. S., M170
Ojano-Dirain, C., 135, 753, T99, T100
O'Keefe, S. F., 146, T305
Okimoto, R., 443
Olavez, R., T5
Oliphant, E. J., 52
Oliveira, M. D. S., 659
Oliveira, V., M87
Oliver, C. E., 215
Oliver, J. W., 97, 593
Oliver, M. A., T57
Olivera, A. A., W212
Olivero, D., W166
Olivo, R., M50, M51
Olley, B. J., 344
Olmos Colmenero, J. J., T217, T242
Olsen, G. L., 693
Olson, K. C., 717, M206
Olson, K. M., 893
Olson, T. A., M14, M20, M24, T122, T144
Oltjen, J. W., M236
Olutogun, O., M7
O'Mahony, J. A., 61
Omogbenigun, O. F., 579
Onks, D. O., M73
Onol, A. G., 297
Onyango, E. M., 137, 292, 293, T14
Oorsprong, H., 400
Orbán, S., T281
Ordway, R. S., 206, 213, 344
Orellana, P., T245
Orr, A. I., 564
Ort, D. T., T105
Ortega, J., M184
Ortega-Cerrila, Ma. E., W103
Ortiz-Colón, G., 775
Osborne, T. M., 516
Oseni, S., 43, 740
O'Sullivan, N. P., 677
Ott, E. A., M243
Ott, G., W261
Ott, R. P., 825
Ott, S. L., 260
Ottman, K. J., 547
Otto, G., 901, W254
Ouellet, D. R., 355, M213
Overend, D., 89, 404, T48
Overton, T. R., 167, 515, 585, 787, 849, 856, W130
Oviedo-Rondón, E. O., 125
Owens, C. M., 144, 145, 150
Owens, P. R., 278, 666
Owens, S. L., 204, 205, T227, W1
Oyarzabal, O. A., 318

P

P. Serrano, M., M52, M53
Paape, M. J., T79, T95
Pacheco, D., 355
Packard, C. E., M141
Packer, I. U., M160
Packham, J. H., W303
Paczkowski, M., W244
Pagán, M., T28, W60
Pagán Riestra, S., T28, W60
Page, J., T282
Pageat, P., 509, 920
Pajor, E. A., 439, W185
Palacios, M. F., 250, 251
Palin, M.-F., 778, T168
Palliser, C. C., 390
Palma, R., T7, T6
Palmer, M. V., 713
Palomba, M., 203
Pamp, B. W., 837
Pampusch, M. S., T152, T153, T154
Pan, W., 667, 830
Pan, Y., 488
Pandya, N., 765, T298, W290
Panella, N., T57
Pang, Y., 121
Panicke, L., 531
Panivivat, R., M231
Pape, D. A., 658
Paradis, C., 688
Paratte, R., 849, M102, M190
Pardo, C. E., T50
Park, B., M301
Park, B. C., M104, T54
Park, C. S., 215, 498
Park, K. S., 147
Park, S., W140
Park, S. W., 127
Park, Y. H., T41, T42
Park, Y. W., 548, 756, T280, T303
Parker, H. M., 304, 305
Parker, J., 125
Parkinson, S. C., W303
Parks, R., T63
Parks, T. E., W218
Paroczay, E., M71
Parr, T., 298
Parrott, D. S., M106
Parsons, A. S., 118, 119, 295, T24
Parsons, C. M., 290, 377, 448, 449, 458, 464, 681, 961, T43, W27
Partington, E. C., 637
Partridge, J. A., T289
Pascale, M., 203
Paschal, J. C., 432, M22, W154
Paschke-Beese, M., 843
Pastrana, L., 680
Pate, F. M., 168, 468, 804, M175
Patel, D. A., 60
Patel, H. A., 83, 84, M309
Patel, J., M71
Patience, J. F., 89, 91
Paton, L., M158
Patterson, D. J., 189, 414, 415, W218
Patterson, J. A., 452, 698, 712, M112, M286
Patterson, J. L., 858
Patterson, P., M291
Patterson, P. H., 194, 265, 266, 322, 441, 559, 831
Pattinson, S. E., 880
Patton, R. S., 850
Paulino, P. V., M171
Pavan, E., 803, 802
Payne, F. A., 543, T285
Payne, J. B., M277
Payne, R. L., 828, 829
Payton, R. R., 97
Payton, T., 656
Pérez-Portabella, I., W71
Pearson, R. E., 214, 534, 739, M1, W159
Pecot, H., T151
Peddireddi, L., 87
Pedraza, J., M184
Peebles, E. D., 127, 141, 304, W6
Peinado, J., 94, 236, 237, 679, M90, T145, W51
Pellerin, D., 852, M213
Peng, J., 795
Pennington, J. A., M231
Penz, A. M., W22
Peraza, Y., T258
Peregrine, A. S., 711
Pereira, A. S. C., M66
Pereira, E. T. N., W227, W230
Pereira, M. N., T187, T237
Perelygin, V. V., 707
Perez, G. C., M269, W227, W228, W230
Perez, J. F., 90, M96
Perez-Enciso, M., 904
Perez-Fernandez, A. B., T249, T250
Perez-Hernandez, G., 51, T271
Perfield, II, J. W., 209, W91
Perkins, N., 517
Perkins, T. L., W149, W154, W157
Perozo, C., T6
Perry, G. A., 99
Perryman, K. R., 574, 576, 577
Persia, M. E., 827, T115
Pescatore, A. J., 192, 287
Pessarakli, M., W301
Pesti, G. M., 122, 291, 442, 812, M303, W36
Pestka, J. J., 491
Peters, D., W65
Peters, R. R., 70, T95
Petersen, A., T98
Petersen, G. I., 412
Petersen, M. K., 152
Peterson, A., T97
Peterson, A. B., T223
Peterson, B., T124
Peterson, B. A., 861, T60
Petersson, C. S., 516, 522
Petitclerc, D., T171
Petitte, J., T30
Petrich, J. W., T11
Pettey, L. A., 409, 410
Pettifer, G. R., 380
Pettigrew, J. E., 250, 251
Pettitt, M. J., 858, M100
Pfeiffer, A. M., 69
Pfeiffer, F. A., M235
Pfortmiller, R., M10
Pharr, G. T., T94
Phelps, A. J., M132
Phelps, O., 656
Phetsomphou, S., 972, W279
Philippe, F., 215
Phillip, L. E., T224
Phillips, J. M., 394
Phillips, R. B., 1, 179
Phillips, W. A., M74, M238
Phipps, R., 663
Picard, M., 822
Pickard, J., 253
Pickworth, C. L., 565
Piepenbrink, M., 285
Pierce, J. L., 287., 406
Pierce, K. M., 249, M101
Pierson, E. E. M., 125, 273, W22
Pietrosemoli, S., T5, T6, T7
Pighetti, D. C., 658
Pighetti, G. M., 715
Pillai, P. B., 145, T16, T21, W8
Pimenta, M. E., M88
Piña, J. A., T263
Piñeiro, C., 505, W78
Piñeiro, M, 505
Pinheiro Machado Filo, L. C., T82
Pinheiro, M. da S. M., T34
Pinnow, S., 641
Pinos-Rodríguez, J. M., M180, W103
Pirazzi, D., W97
Pires, A. V., M160
Pires, J. A. A., W97
Pirlo, G., M228
Pisoni, G., 39, 652, 790
Pita, F., W265
Piva, A., M112, W49, W272, W273
Piva, G., W18, W58, W273
Pixley, C. M., 110, 128
Piyasatian, N., W255
Plaizier, J. C., W104
Plunske, R., M284
Poch, S. M., T114, T112, T149, W16
Poe, M., 383
Pohle, K., W193
Pohlman, F. W., M73, M119
Pokhilenko, V. D., 707
Pol, M. M., T81
Pollard, A., 50, 761
Pollard, B. C., 929, T141
Pollard, G. V., M196
Polyak, K., 351
Pomp, D., 896
Ponson, A. M., T137
Poole, T. L., 105, M288, T8
Poore, M. H., 52, 336
Pope, L., T43
Pophal, S., 117, 461, 810, T30
Poppe, C., W61
Porcu, F., 634
Porr, C. A. S., M247
Porr, S., T268
Portaluppi, M. A., 421
Porter, D., 351
Porter, P. A., M203
Porter, S. F., W113
Portillo, J. J., M26, M27, M29, M70, W2, W47, W48, M28, W5

Posadas, E., M48
Post, N., 416
Posuya, W., 425
Potturi, L. P., 452
Pouge, D. O., 523
Poulos, S. P., T151
Powell, R. L., 42, 519, 741, M4
Powers, W. J., 190, 406, 563, 911, M145
Pradhan, R., T252
Praharani, L., M20
Prandini, A., W58
Prather, R. S., T148
Preder, T. M., 320
Prewitt, L. R., 378
Price, W. J., 428
Pringle, T. D., 632, W81
Pritchard, R. H., 157, 724
Prosser, C. G., 780, T170
Proudman, J. A., 309
Provenza, F. D., W190
Prow, L. A., 45, 762
Pruna, D., 521
Puchala, R., W179, W180, W181
Puebla-Osorio, N., M38
Pugh, R. B., M73
Pulido, R. G., M126, T245
Pulina, G., 203
Pumford, N. R., 134, 136, T99, T100, T163
Puntenney, S. B., 480, 716
Punyapornwithaya, V., 424, 425, W240, W250
Purcell, S. H., 104
Purdy, P. H., W215, W258, W260
Purna, S. K. G., 541
Pursley, J. R., 422, W220, W229, W234
Putnam, D. E., 69, 515, 618, W91, W106
Puyuelo, C., W71
Pyatt, N. A., 486, 838, 839, T194

Q

Qi, G., W21
Qiao, F., W102
Qiu, X., 624, W66
Qolipur, M., W300
Quaino, O., M144
Queiroz, A. C., T238
Queiroz, O. C. M., M188
Quesnel, H., W77
Qui, X., 913
Quigley, III, J. D., 254, 376, 377, T73
Quinn, P. J., 638, 639

R

Ra, J. C., T55
Rabiee, A. R., 845, 846, 847
Rachuonyo, H. A., 603
Racz, V. J., 917
Raczkowski, C., 608
Radcliff, R. P., 418, 659, T127
Radcliffe, J. S., 87, 801, 912
Radcliffe, S., 244, 245, 246
Rademacher, M., 572, 579, T31, T35, W69
Raeth-Knight, M. L., 162, 941
Rafacz, K. A., 290, 681
Rainard, P., T79
Rajbhandari, P., 62
Rakes, L. K., 234, 235
Rambeaud, M., 715
Ramos, C. H., T246
Ramos, K. S., M38
Ramos, M. H., W123
Rampacek, G. B., W224
Ramsay, T. G., T150
Ramsey, J. J., T185
Randel, R. D., 335, 432, 433, 924, M24, M142
Raney, N. E., 748
Ransom, J. R., 200
Rasby, R. J., W242
Rasmussen, M. A., 451, T9, T11
Rath, M., 537, 129
Rath, N. C., 17, T86
Rathburn, H. B., T225
Rathgeber, B. M., 142, 313
Ratliff, B. W., 85, 254, 413, 573, 574, 575, 576, 577, 578, 796, 908
Rattink, A., 905
Ravarotto, L., T88
Ravindran, V., 819
Ravussin, E., 216
Ray, D. L., M270, M271, W225
Rayburn, E. B., M137
Razz, R., W299, W302
Realini, C., M133, M134
Realivasquez, R., W258, W260
Rebeiz, N. J., M217
Reber, A. J., T63
Reddish, J. M., 233
Reddy, G. B., 608
Reecy, J. M., 44
Reed, B. A., 381, T304, W183
Reeg, J., T259
Rehberger, T. G., 252, M106, M191
Rehfeldt, C., 398, T56, W261
Rehman, S., 545
Reid, E. D., 227, 782, 784, W203
Reid, G., W285
Reinhardt, C. D., 730, W145, W148
Reinsch, N., 901, W254
Rekaya, R., 43, 740, 754, 885, M5, M31, M259, M261
Rekik, B., 742
Relandeau, C., 583, 813, 814, 822, M78
Remmenga, M. D., M136
Remond, D., T231
Remus, J. C., 125, T27, W22
Reneau, J. K., 256, 967, W248
Renema, R. A., 270, 271, 272
Renteria Monterrubio, A. L., M59
Rentfrow, G., 717, M56
Resende Júnior, J. C., T237
Resende, K., W20
Reverter, A., 883
Reverter-Gomez, T., 239
Reyes-Herrera, I., 197
Reynnells, R., 6
Reynolds, C. K., 15, 622, M216, W94, W117
Reynolds, J. L., 54
Reynolds, J. P., W239
Rhea, J., 555
Rhoades, R. D., M77
Rhoads, M. L., 418, 587, 927
Rhoads, R. P., 930, M232
Ribeiro, C. V. D. M., 949, M150, M151
Rice, D., W65
Rice, S. U., 408
Richard, C., T231
Richard, R., 726
Richardel, P. T., 216, T137, T190
Richards, C. J., 56, 472, 569, M73, M154
Richards, J. D., 138
Richards, M. P., 146, T112, T114, T149, T150, W16
Richards, T., W156
Richardson, C. R., M181, M196
Richardson, L. F., W126
Richardson, L. J., 107, 274, 279, 280, M281, M294
Richardson, L. R., T151
Richardson, M. D., M122
Richardson, R. L., M259, M261
Richert, B. T., 87, 244, 245, 246, 800, 801, 915, M147
Richeson, J. T., W150
Richter, R., 51, T271
Ricke, S. C, M304, 19, 112, 123, 130, 463, 644, 696, M276, M278, M279, M288, M289, M293, M234, T85
Ricketts, A. P., T93
Rideout, T. C., T53
Ridley, W. P., W64
Rieke, A., T148
Riggins, J. C., 593
Rigolon, L. P., 840, T235
Riley, D. G., M24, M74, M238, T122
Riley, M. B., W99
Riley, T. O., 523
Rimal, A., W149
Rinaldi, M., 39, 790
Rincker, C. B., T194
Rincon, R. M., T262, T263, W162, W163
Ringler, J. E., M183, W73
Rios, F. G., T37, T254, M26, M27, M29, M70, T146, W47, W48, M28, W5
Rios-Utrera, A., 888
Risco, C. A., 797, 798, M14
Ritz, C. W., 664, M302
Rius, A. G., 500, T172
Rivera, E., M129
Rivera, H., W217
Rivera, J. D., W150
Rivier, L. H., T205
Rizvi, S. S. H., 540
Robbins, D. H, 683
Robbins, K. R., 369
Roberson, K. D., 667, 830, 834, W26
Robert, J. C., 343, T231
Robert, S., W196
Roberts, A. J., 99
Roberts, A. L., 354
Roberts, J. C., 216, 963
Roberts, M. P., 512
Roberts, R. M., M267
Roberts, T., 705
Robeson, L., 301, T106
Robinson, F. E., 270, 271, 272, M300
Robinson, L., 945
Robinson, P. H., 599, M204, W132
Robinson, R. S., M255
Robinson, T. F., T96, T97, T98
Robison, J. D., 381
Robison, O. W., 900
Robles, J. C., T247, T251, T257
Robles-Trillo, P. A., W160
Rocha, D., 898
Roche, J. R., 73, 334, 479, M229
Rode, L. M., T219
Rodee, W., 945
Rodehutscord, M., W52
Rodrigues, A. C. O., W247
Rodrigues, C. A., W226
Rodrigues, J. A., M156
Rodrigues, P. B., M87, M93, T34
Rodrigues, P. H. M., 625
Rodríguez, A. A., M211, T28, W56, W60, W142
Rodríguez, C., M184
Rodriguez, S. M., 65, W210
Rodriguez-Martinez, R., W9, W160
Rodriguez-Zas, S. L., 365, 431, 919, M8, M15, T133, T134, T135, T136, W256, W266
Roeder, B. L., T96, T97, T98
Rogan, G., M220
Rogers, G. W., T266
Rohrbach, N. R., 593
Rohrer, G. A., 895, M258, W268
Rojanasthien, S., W249
Rojstian, S., W250
Rolon, A., 279, 280
Romero, R., T6
Roneker, K. R., 408
Roof, M., 719
Rook, A. J., W189
Ropp, J. K., 953, W89
Rops, B. D., 88
Rorie, R., 416
Rosa, G. J. M., 363, 659, 748, 751
Rosario-López, M., M207
Rosas, N., 86
Rose, S. E., 202
Rose, S. P., T22
Rosebrough, R. W., T114, W16
Rosenberg, J. B., W211
Rosenkrans, Jr., C. F., 401, 402
Rosiles, R., M64
Roskamp, B. J., M15
Roski, K., W224
Rosmann, R., 230
Ross, D. A., T191
Ross, J. W., 774
Ross, K. A., 154, T185
Rossetti, S., 653, W166
Rossi, J. E., W81
Rossini, K. L., T76
Rotger, A., M223
Rothschild, M., 898
Rottinghaus, G. E., T75, W191, W192
Rotz, A., 387

Rotz, C. A., 262
Rounds, W., W150
Rouquette, Jr., F. M., 566, 808, M142, M152
Roura, E., M89, M110, W71
Roush, W. B., M296
Rowe, D. E., 278, 666
Rowe, L. J., M55
Rowley, L., 779
Roy, R., W270, W271
Royal, S., W285
Rozeboom, D., 795
Rubinstein, A., 600
Rubio, I., 588, 591
Rubio, M. S., M64
Rudd, S., 898
Rude, B. J., 564
Ruegg, P. L., 66, 199, W247
Ruegg, P. P. L., T81
Ruffin, D. S., T156
Ruiz, T. M., M207
Ruiz, U. S., M103, M108
Ruiz-Feria, C. A., T102
Ruiz-Sánchez, R., M2
Rule, D. C., 687, M73, M75
Rumburg, B. P., 602
Rumsey, T. S., M165
Ruppel, K. A., W136
Rupprecht, C., 215
Rush, J. K., 682
Russek-Cohen, E., 70
Russell, B. A., T114, W16
Russell, J. R., 230, 563, M145
Russell, L. E., 254, 376
Rust, S., T204
Rustad, M. E., 272
Rutgliano, H. M., 74, 586, 633, W239
Rutledge, J. J., 427, W213
Ryan, C. M., 787, W130
Ryan, P. L., 693, W231
Rycroft, H., 364

S

Saacke, R. G., W159
Sachs, C., 709
Saddoris, K., 87, 244, 245, 246
Saengkerdsub, S., M293
Sa Filho, O. G., W228, W230
Saffray, D., 509, 920
Sahlu, T., W174, W179, W180, W181
Sainz, R. D., 894, M23, M171, M236
Saito, T., 757, 758, M67, M68
Sakomura, N. K., M32, W7, W20
Sala, R., W79
Salak-Johnson, J. L., 20, 21, 431, 919
Salama, A. A. K., T176
Salawu, M. B., 612, T212
Salgado Bernardino, F., M205
Saltman, R., 426
Sampson, J. D., 930, M232, W129
Sams, A. R, 696
Sanabria-León, R., T28, W60, W142
Sanchez, E., W158
Sánchez, J., 237, 253, W50, M90, M105, W17
Sanchez-Gimeno, B., M116
Sánchez-Meraz, J., W103
Sanchez y Garcia Figueroa, F., M2, W9
Sandelin, B. A., 753, M73
Sanders, A. H., 42, 519
Sanders, J. O., 882, 884
Sanders, K., 901, W254
Sanders, S. R., 617, 777, W84
Sanderson, M. A., M121
Sands, J. S., 137, 293, 300, W31, W33
Sands, M. T., 72
Sangthcrapitikul, O., M41, M42
Santamarina, C., 263
Santiago, H. L., T28, W56, W142
Santos, F., M32
Santos, F. B. O., M277
Santos, J. E. P., 74, 101, 586, 633, T267, W96, W239, W236
Santos, M., W111
Santos, R. M., M269, W227, W228, W230
Santos, Z. A. S., T39
Santoyo, F. A., T89
Santschi, D. E., M192, M194
Sanz, J., M116
Sapienza, D., T214, T215
Sapp, R. L., 885, M31
Saremi, B., M233
Sargeant, J. M., W274
Sari, M., 297
Sartin, J. L., 864, T156
Sartor, C. D., 110, 111, 128
Sasanami, T., T110
Sato, S., W133
Sato, T., 393, M189, W204
Sato, Y., M67
Satter, L. D., M114, M115, M256
Sauber, T., W65
Sauer, W., T35, T49, W69
Saunders-Blades, J. L., 466
Sauvant, D., 343, 481
Sauve, A., 560
Savoini, G., 652, M102, M190, W109
Sawalha, R. M., 27
Sawdy, J., 233
Sawyer, J. E., M77, M139
Saxton, A. M., 56, 593, 715
Sayer, K. M., 330
Saylor, W. W., 827, T12, T115
Scaglia, G., 565
Scanes, C. G., 451, T117
Scanga, J. A., 200, 202
Scarbrough, D. A., 58, 59, M122
Scenna, F. N., 97, 593
Schade, O., 843
Schaefer, D. M., T183
Schafer, D. J., 414, 415, W218
Schasteen, C. S., 832
Schatzmayr, D., 3
Schatzmayr, G., 3
Schauff, D., 933
Scheffler, J. M., T157
Scheideler, S. E., 678, T20
Schembari, G., 546
Schinckel, A. P., 30, 31, 87, 238, 800, 801
Schingoethe, D. J., 946, 947, M214, W98
Schlegel, P., W150
Schlesser, H. N., M8
Schlesser, J., 187, W284
Schlipf, J. M., W143
Schlote, W., W261
Schlotterbeck, R., 689, 690, 691
Schmidt, F. J., W278
Schmidt, K. A., T278, T279
Schmidt, R. J., 211, 212, M188
Schmidt, S., 660, 928, W219, W237
Schmidt, T. B., 717, M56
Schneider, D. K., T50
Schneider, J., M50, M51
Schneider, J. D., 570
Schneider, M. J., 197
Schnell, S., 35, 364
Schnitkey, G. D., M240
Scholljegerdes, E. J., 478, 687, 836
Scholz, A. M., 661, W207
Schook, L. B., 374
Schreiweis, M. A., 444
Schrick, F. N., 97, 593, W222
Schroeder, G. F., 156
Schroeder, J. W., T209
Schuenemann, G. M., 97, 593
Schukken, Y., 520
Schulte, H., 520
Schulten, E. S., 282
Schultz, R., 563
Schulz, J. S., T158
Schutz, M. M., 30, 31, 183, W185
Schutzkus, V. R., 427, W213
Schwab, C. G., 206, 213, 344, 355, 618, 907, 934, W106
Schwab, C. R., 406, 899, 902
Schwab, E. C., 618, W106
Schwahofer, D., M166
Schwartz, R. C., 12
Schwartzkopf-Genswein, K. S., 153
Schwean-Lardner, K., 436, 438, 815, 977
Scollan, N., W85
Scott, M. C., 969
Scott, N. L., M203
Scott, T. W., 635
Scudder, J. M., 221, T139
Séeguin, M. J., 22
Seawright, T., T264
See, T., M10
Sefton, A. E., 435
Seguin, P., 395, 396
Seidel, Jr., G. E., W232
Seki, M., W133
Selig, K. B., M286
Selig, K. M., M112
Selvaraj, R. K., T91
Seman, D. H., M149
Seo, J. T., M239
Seo, S., 934
Seok, J. S., W298
Settivari, R. S., W191
Sewalem, A., 733
Sewalt, V. J. H., M282, M287
Sewell, J. R., 392
Sexten, W. J., M177
Seykora, A. J., 41, 385, 524, 527, 535
Seymour, R., 239
Sgoifo Rossi, C., 790
Shafii, B., 428
Shah, M. A., M221
Shank, A. M. M., 565
Shanklin, R. K., 565
Shanks, R. D., M8
Shannon, A. E., T149
Shapiro, C., 7
Shappell, N. W., T71, T72
Sharma, P., 443
Sharp, M., T96
Sharpe, O. J., M253
Sharpley, A. N., 266
Shaver, R. D., 618, T214, T215, W106
Shaw, D., M291
Shaw, D. E., T191
Sheaffer, C. C., 397
Sheffield, R., 386
Sheldon, B. W., 319, 325, M277, M284
Shelton, G. S., T166
Shelton, J. L., 580, W25
Shen, Y., M81, T53
Shewfelt, R., 756, T280
Shi, X., W274
Shields, S. J., 24
Shih, J. C. H., 2, 669, 676
Shillito, R. D., W64
Shim, S. Y., T295
Shimizu, K., W133
Shimokomaki, M., M50, M51
Shimosato, T., 757, 758
Shin, J. H., M182
Shin, Y. W., T41, T42
Shingfield, K. J., 622, W93, W94
Shinohara. H., W133
Shirakabe, E , T252
Shirashoji, N., T274
Shirkey, T. W., 772, 773
Shirley, K. L., 171, M249, W264
Shivazad, M., T17, T18
Shockey, W. L., M137
Sholly, D. M., 87, 244, 245, 246, 801, 915, M147
Shook, G. E., 530, 750
Shurey, S., 13
Shutske, J., 176
Si, W., W61, W252
Siciliano-Jones, J., 943
Siegel, T. W., T93
Siegford, J. M., 502, 503
Siggers, R. H., 772, 773
Silcox, R., 957
Silley, P., 720
Silliart, B., 920
Silva Del Rio, N., M260, W123
Silva, A. M. G. B., 80
Silva, A. T. N., M269
Silva, H. O., M87, T51
Silva, J. C., M163
Silva, M. L. F., T38
Silva, S. da L. e, M66
Silva, S. L., M166, M167
Silver, G. A., M249, W264
Silversides, F. G., 25, 321
Silvestre, F., 627, T140
Silvia, W. J., M270, M271, W225
Simmins, P. H., 89
Simmons, M., M44
Sims, M. D., 674, 675
Sims, S. R., T305
Sinclair, L. A., 637, 880, 944

Sindt, J. J., 331
Singer, R., 720
Singh, H., 83, 84, M309
Singh, N., 208
Siopes, T. D., 309, 310
Sipe, G. L., 375, M165, M168
Sipkovsky, S. S., 659, 930, T130
Siragusa, G. R., 274, 708, M294
Sivaprasad, U., T167
Skjolaas-Wilson, K. A., 863
Sklan, D., 450, M254, W118
Slavik, M., W269
Slay, L. J., 729
Sleiman, F. T., M217
Sliger, B., 555
Sloan, B. K., 213
Small, B. C., T129
Small, J. A., W216
Smirnov, A., 450
Smith, C. S., T170
Smith, D. J., T71
Smith, D. L., 595
Smith, D. P., 314, 315, 317, M43, M49, M301
Smith, G. C., 200, 202
Smith, G. W., 921
Smith, J., T22
Smith, J. F., 596, 597, 598
Smith, J. M., 558
Smith, J. W., T265
Smith, K., M283
Smith, K. L., 849, 856
Smith, L. F., 255
Smith, L. J., 475
Smith, M. F., 99, 189, 414, 415, W218
Smith, P. G., 857
Smith, R. C., W211
Smith, R. M., 178
Smith, S. B., M77, M170
Smith, T., M22
Smith, T. F., 58, 59
Smith, T. K., T26, T89, W45
Smith, T. R., 523, 610
Smothers, C. D., T93
Snedegar, A., 795
Sniffen, C. J., 388, 619, 945, T195, W204
Snowder, G. D., 881
Soares, A. L., M50, M51
Sobrinho, F. S., M156
Socha, M. T., 164, 165, 167, 169, 856, M172
Soder, K. J., M121
Soderstrom, P. G., M129
Sofos, J. N., 200, 202
Sohn, E. J., T95
Sohrabi Hafhdoost, I., T17, T18
Soita, H. W., 224
Solà, J., W71
Solà-Oriol, D., M89
Solaiman, S., 655, W169
Soler, J., T57
Solis, F., 108
Solis, G., T262
Sollenberger, L. E., 805, 809, M128
Solomon, M. B., M71
Soltwedel, K. T., 251
Somes, S., 795
Son, K. S., M95, M104, M107, T54, T55, W11, W30
Soncini, G., M190
Sonon, Jr., R. N., 230
Sonstegard, T. S., 220, 744
Soria, A. I., 86
Soryal, K. A., 654
Soto, P., M250
Soto-Navarro, S. A., 837, T209
Southern, L. L., 288, 580, 581, 828, 829, W25
Southey, B. R., M15, W256, W266
Souza, A., T213
Souza, A. A., W82
Souza, A. S., 502, 503
Souza, L. W. O., 625
Souza, R. T. Y. B., M167
Sozzi, A., 627, T140
Spain, J. N., 855, 930, M232, T130, W124, W125, W129
Spangler, D., 675, 933, W131
Spate, L. D., M267
Spatz, J., 520
Spearman, K. R., M243
Spears, J. K., W70
Spears, J. W., 469, 470, 471, 942, M172
Speer, N. C., 611
Speidel, S. E., 887
Speight, S. M., M179
Spencer, J. D., 413
Speroni, M., M228
Spicer, L. J., 588, M191, T122
Spiers, D. E., 930, M232, T75, T130, W191, W192
Spiller, R., 668, 672
Spiller, S. F., W258, W260
Spring, P., M111, M224
Springer, G. K., T148
Spruill, J., M284
Spurlock, M. E., 155, 241
Sreenan, J. M., 95, 98, 422
Srichana, P., 85, 254, 573, 574, 575, 576, 577, 578, 908
Stack, J. L., M121
Stahl, C. A., M56
Stahl, C. H., 201, 718
Stahlhut, H. S., 469, 470
Stalder, K. J., 406, 860, 899, 902, 907
Stangeland, V., W32
Staniar, W. B., 75, 76, 77
Stanker, L. H., 106
Stanko, R. L., 592
Stanley, C. C., 216, T137, T190
Stanley, V. G., 435
Stanton, T. L., 869
Staples, C. R., 612, 627, T138, T140
Starbuck, G., 100
Stasko, J. A., 496
Staufenbiel, R., 531
Stearns, T. M., W266
Steffans, W. L., M281
Stegner, J. E., 415
Steibel, J. P., 751
Steidler, S., T88
Stein, D. R., 774, M191
Stein, H. H., 412, W65
Stein, J., 911
Steining, C. M., 929
Stella, A., 790, M190
Stepp, R., M242
Stern, M. D., M206
Stern, N. J., 707
Sternes, K. L., W258, W260
Sterry, R. A., 968
Stevenson, J. S., 420, 421, W222, W223, W235
Stewart, C. B., 394
Stewart, Jr., R. L., M128
Stewart, T. S., 30, 31
Stiening, C. M., 223
St. John, A., M291
Stock, R. A., 329, 332
Stockdale, C. R., M229
Stockhofe, N., T192
Stouder, W., T165
St-Pierre, N. R., 342, 939, M138, T221
Strickler, B. E., M111
Stricklin, W. R., 646
Stronge, A. J. H., 98
Stuedemann, J. A., M149
Stull, C. L., W183
Stup, R., 382
Stutts, K. J., W233
Suarez, B. J., 616, T192
Such, X., T173, T176
Suedekum, K.-H., 843
Suekawa, M., 393, 619
Suk, Y. O., M30
Sullivan, H., 383
Sulpizio, M. J., 331
Summers, M., T275
Sumner, J., 71
Sun, F., T93
Sun, J. M., W7, W15
Sun, S., M35, T27
Sung, H. C., M30
Sunny, N. E., 204, 205, W1
Sunvold, G. D., 487
Suriyasathaporn, W., 424, 425, W240, W250
Suryawan, A., 766, 767
Susin, I., M160
Sutherland, M. A., 20, 21, 919
Sutton, A. L., 244, 245, 246, 698, 801, 915, M147
Sutton, D., 668, 672
Svetoch, E. A., 707
Svetoch, O. E., 707
Swanson, K. S., 374
Swanson, M., W224
Swayne, D., 5
Swecker, W. S., 417, 565
Sweeney, T., 249
Swiegers, J. P., M186
Swingle, S. R., 730, W148
Sylvester, J. T., 939
Szabo, F., W146
Szasz, J. I., 327, 726
Szasz, P. A., 327
Szigeti, J., T1, T3, T283, T284, W280, W287
Szkotnicki, B., T58, T59

T

Tablante, N. L., 665
Tabler, Jr., G. T., M17
Taherpour, K., W28
Taira, H., T107
Tajima, K., T196
Takahashi, K., M68
Takano, T., M189
Takenaka, A., T196
Tako, E., 465
Tako, J. W., 611
Talbot, B. G., T171
Talbott, C. W., 608, M10
Tallam, S. K., M262
Tameni, M., T88, W166
Tamir, B., W176
Tamminga, S., 389, 950, T237
Tamura, T., W133
Tanaka, T., 874, T159, W147, W187
Tang, C., T6
Tang, Z. X., 134
Tanksley, J. P., 304
Tao, W., 543
Tapp, C., 258
Tarazon, M. A, T244, W246
Tas, B. M., 389, 950
Tasistro, A. S., M302
Täubel, M., 3
Taweel, H. Z. H., 389, 950
Taylor, C. C., 951, T226
Taylor, I. L., 771
Taylor, M., 239
Taylor, M. L., W10, W39, W40
Taylor, Jr., R. L., 282
Taylor, S. J., M186
Taylor, T. A., 641
Taylor, W. H., 379
Tedeschi, L. O., 403, 621, 700, 934, T182
Tedesco, D., 653, T88, W166
Teixeira, J., W111
Teixeira, L., W111
Teller, R. S., 212
Telles, G., T258
Tellez, G. I., 108, 109, 110, 128, M290, M292
Tempelman, R. J., 363, 751, 930
Terré, M., 692
Tesfai, K., 654
Tewe, O. O., 686
Thakur, P. R., T299
Thaler, R. C., 88
Thallman, R. M., 746
Tharavichitkul, P., W249
Thatcher, W. W., 74, 586, 627, 633, T138, T140, W96
Thaxton, J. P., 818, M299
Theepatimakorn, S., 424
Theis, Casey M, 729
Thiessen, D. L., 917
Thomas, D. L., 641
Thomas, E. D., 388, 393
Thomas, M. G., 171, M249, W264
Thomas, M. L., M119, W157
Thomason, R., 228, 229
Thompson, Jr., D. L., T190
Thompson, J., W244
Thompson, J. M., 786
Thompson, K. C., M17
Thompson, K. L., 682
Thompson, L., W80
Thornton, L. L. M., 29
Thornton, S. A., 459, T94
Thorrold, B. S., 390
Thrift, F. A., M19
Tichy, S. E., M280
Tiffany, M. E., M172
Tiffany, S. M., 420
Tikofsky, L., 520
Tilemahos Zervoudakis, J., M205, W83
Timmons, J., 437
Tinsely, N., T99, 135, T100
Tipton, E. L., 556, T266
Tirabasso, P. A., M216

Titgemeyer, E. C., 156, T180
Tiwanuntakorn, W., W250
Todd, R. W., 12
Toerien, C. A., 225, T175, T222
Tohno, M., 757, 758
Toivonen, V., W93, W94
Tokach, M. D., 359, 570, 571, 914
Toledo, R., 756
Tomasula, P. M., T287
Tomlinson, D., 164, 165
Tooker, M. E., 532, 536
Torrallardona, D., M89
Torrance, T. S., 413
Torrentera, N., T49, W76
Torres-Rodriguez, A., 110
Torrey, S., 504
Torrez, A., 108
Torrres, D. T., T166
Toscano, M. J., 512
Totir, L. R., 44, 752, W265
Touchette, K. J., T74
Tovar-Luna, I., W179
Townsend, J. C., T16
Townsend, J. R., 155, W127, W185
Tozer, P. R., T4, W221
Trampel, D., W13
Trapp, S. A., 801
Trehy, M., 832
Treiber, K., 75, 76, 80
Tremblay, G. F., 955
Trenkle, A. H., 230, T126
Tricarico, J. M., M118, M124, M179, M200, M201
Troche, C., T27
Trott, J. F., 221, 352, T125, T139
Trout, D. R., 225
Troutman, T. D., 460
Trower, J. N., T50
Tsuruta, S., 43, 369, 732, 740, 906, M16, M21
Tucker, H. A., 659
Tucker, L., 673
Tumino, G., 544
Tunick, M. H., T287
Turgeon, O. A., 327
Turini, J., 653
Turner, J. E., 58, 59, M119, M122
Turner, J. W., 808
Turner, K. E., T243, W173
Turner, K. K., 79
Turzillo, A. M., M252
Tyler, H. D., T73, T74
Tylutki, T. P., 700
Tyner, A. M., T87
Tyrrell, H. F., 932

U

Uchida, K., W204
Udayarajan, C., 551
Uetake, K., 874, T159, W147, W187
Uhrin, D., M307
Umesiobi, D. O., 747
Undersander, D. J., M176
Unger, A., T2
Ungerfeld, E., T204
Ungkuraphinunt, P., T271
Uni, Z., 450, 456, 465
Updike, M. S., 151, 233
Upreti, P., 63, 541, 761, T286, T288
Ure, A. L., M206, W113
Uriarte, J. M., T36, T37
Usry, J. L., 85, 248, 571, 573, 575, 578, 582
Ustunol, Z., 491
Utiyama, C. E., M103, M108, W62, W63
Utterback, P. L., 681, W27
Uwayjan, M. G., M217

V

Valadares Filho, S., T213
Valadares, R. D., W87
Valdez, F. R., 942, W119, W121
Valdez, K. E., M252
Valdez, M., T257
Valencia, D. G., 835, 910, M52, M53, W41
Valencia, J., T263, W163
Valenzuela, J., W246
Valizadeh, R., M208, T240, W108
Valle, G., 55
Vallet, J. L., M258
Vallimont, J. E., W245
Valnegri, L., M190
Valtorta, S. E., M143, M144
van Aardt, M., T305
Van Alstyne, R., M174
Van Amburgh, M. E., 353, 497, T191
VanBaale, M. J., 609, 786, M226, M229
Van Cauwenberghe, S., 813
VandeHaar, M. J., 482, 495, 499, 659
van den Borne, J. J. G. C., 400, W209
van der Heijden, S. J. F. M., 400
Vander Pol, K. J, 329, 330, 332
Vander Voort, G., 916
VanDevender, K., 54
VanDeWalle, B. S., T269
Van Doormaal, B., 733
Van Hekken, D. L., T287
van Kampen, T. J. A., 905
Van Kessel, A. G., 255, 289, 453, 454, 772, 773
Vann, C., T264
Vann, R. C., 432, 660, M253
VanRaden, P. M., 532, 536, 735, 737, 739, 741, M4, M8, M11
van Reenen, C. G., T192
Van Tassell, C. P, 744, 29
Van Vleck, L. D., 26, 27, 746, 881, 888
van Vuuren, A. M., 938, T192
VanWieringen, L. M., 386
van Wijk, R., 905
Van Wikselaar, P., 616
Varel, V. H., 605
Varga, G. A., 848, T4, W86, W126
Varga, L., T1, T2, T3, T281, T283, T284, W261, W280, W287
Varisco, G., 653
Vasconcelos, J. L. M., M268, M269, W226, W227, W228, W230
Vasconcelos, J. T., M77, T178
Vazquez-Añon, M., 378, 811, 816, 817, T219
Veira, D. M., M158, M173
Velarde, A., T57
Velasquez, A., 320
Velazquez, E. A., T249
Velleman, S. G., T162
Venable, E., 160
Vendramini, J. M. B., 805, 809, M128
Vendrell, P. F., M303
Venhaus, C., T214, T215
Venuto, B. C., M155
Vera, L., W29
VerBoort, W. R., T267
Vergara, J., M123
Vergara-Lopez, J. A., M219
Verghese, M., 198
Verkerk, G. A., M265
Vernooy, E., 517
Versteeg, J., W239
Vessie, G., T53, W116
Vibart, R. E., M146
Vicario, D., 28
Vicente, B., 910
Vicente, J. L., 109, 111, 128
Vicini, J. L., T165
Vieira, S., 117, 810
Vieira, S. L., 461, 825
Viguera, J., M53
Villaquiran, M., M156, W177
Villasenor, M., 74, 101, 633, W236
Villegas-Vizcaino, R., W9
Vimercati, C., 39
Vincent, R. P., 13
Viola, E. S., 825
Virden, W. S., M299
Virgilio, R. J., W151, W152, W158
Vogel, R. J., W129
Volodina, L. I., 707
von Keyserlingk, M. A. G., 430, M158, M173, T82, W184
Vonnahme, K. A., 478
Vukasinovic, N., 901, W254, W259

W

Waghela, S. D., 18, T92
Waghorn, G. C., 562, 567, W114
Wagner, J. J., 474
Wagner, W. R., M18
Wakenell, P., W195
Waldbieser, G., T124
Waldron, D. F., M235
Waldron, J. N., 80
Waldron, M. R., 167, 856
Walker, C. R., W170
Walker, D. K., T225
Walker, J. M., M49
Walker, L. T., 198
Walker, P. M., 838, 839, M183
Wall, E. H., 68, 226, 781, 783, 785
Wallace, R. L., 784
Wallbrown, R. M., M137
Waller, J. C., 56, 97, 593, M154, W100
Walsh, M. C., 87, 244, 245, 246, 801, 915, M147
Walters, A. H., W159
Walters, B. S., M305
Walz, R., 610
Walzem, R. L., 140
Wanda, S.-Y., 281
Wang, B., 142
Wang, H., 148, W269
Wang, L., 175
Wang, T., 897
Wang, W., T104
Wang, Y., 480, 716, M161, T23, T29, T210
Ward, D. A., 80
Ward, J. D., 610
Ward, N. E., 823
Ward, S. L., 848
Ward, T. L., 167, W24
Wardell, J., T109
Warf, C. C., M285, M295
Warnick, L. D., 199
Warren, Jr., J. E., M18
Warrington, B. G., M129
Washburn, S. P., 529, M146
Wasson, R., M237
Wastney, M. E., 390
Waters, W. R., 713
Watkinson, P. J., M308, T297
Wattiaux, M. A., 337, 342, W137
Wax, L. E., T75, W191
Weary, D. M., M173, T82, W184
Webb, B. A., 96
Webb, G. W., M244, M245, M246
Webb, Jr., K. E., 909, M99
Webel, D. M., 413
Weber Nielsen, M. S., 499
Weber, P. S. D., 865
Weber, T. E., T161
Weber, W. J., 67, W205, W206
Wechsler, F. S., M268
Wedegaertner, T. C., 943
Weems, C., M257
Weems, Y., M257
Weese, J. S., 711
Weigel, K. A., 33, 37, 38, 427, 525, 530, 734, W213
Weis, A. J., 429, 922, 923, W251
Weiss, W. P., 169, 342
Welch, P. A., M287
Welcome, F., 520
Wells, J. E., 605, T45
Wells, M., 533, 779, 780
Wells, S. J., 199
Welper, R. D., 530
Welsh, Jr., T. H., 433, 729, 924, T144
Wencl, W. T., 960
Wenz, J. R., 258, 521
Werkhoven, A., M140
Werkhoven, J., M140
Wertz, A. E., T126
West, J. W., 476, 477
West, R. L., M20
Westendorf, M. L., T40
Westmoreland, S., 312
Weston, T. R., 836
Wettemann, R. P., 553, 588, 591
Wetzel, Brian P, W156
Whang, K. Y., M109, T41, T42, W295
Whisnant, C. S., 469, 470
White, F. J., 588, 591
White, J., W219

White, J. D., 553
White, L. J., 453
White, M. B., 729
White, M. E., T152, T153, T154
White, N. J., T297
White, T. W., M132, T190
White-Bennett, S. L., M146
Whitehouse, N. L., 206, 213, 344, 618, W106
Whitley, J. C., 779, 780
Whitlock, L., 933
Whitmarsh, S. K., 127, 304
Whittier, W. D., 417
Whitworth, K. M., T148
Wick, M., 151, 233
Wideman, R. F., T103, T104
Widowski, T. M., 22, 504, W200
Wierda, R., 49
Wiggans, G. R., 29, 737
Wilcox, C. J., T121
Wildeus, S., T243, T261, W173
Wildman, C. D., 476, 477
Wilk, J. C., 529
Wilkie, D. C., 289, 453
Wilkinson, N. S., 55, M174
Wilkinson, R. G., 880, 944
Willard, S. T., 429, 660, 693, 922, 923, 928, M253, W219, W231, W237
Williams, C. A., 80
Williams, C. C., 216, M132, T137, T190, T220
Williams, C. M., 704
Williams, G. L., 590, M264
Williams, J., W80
Williams, J. F., 380
Williams, J. L., W261
Williams, L. L., 198
Williams, L. M., 773
Williams, N. H., 91, 582
Williams, N. M., 96
Williams, P. G., 211, 674, W86
Williams, R. J., 523, 610
Willing, B. P., 772, 773
Willis, W. L., M272, M273, M283
Wilson, D. E., 520, 886, 891
Wilson, E. D., W296
Wilson, H. M., 523, 610
Wilson, J. L., 107, 274, 279, 280, M281, M294, M306
Wilson, J. W., 823
Wilson, K. F., M181, M196
Wilson, K. J., W42, W43, W44
Wilson, L., 87
Wilson, M. E., 302, 595
Wilson, R. D., 427, W213
Wilson, S. J., T130
Wilson, T., 779, 780
Wilt, H. D., M83
Wiltbank, M. C., M251, M256
Wilton, J. W., 892
Wineland, M. J., T13, T105
Wineland, N. E., 196
Wing, T., 134, 135, 136, M31, T99, T100, T163
Winston-Bennett, F., M65
Wistuba, T. J., M75, M76
Wittie, R., M141
Wittwer, F., M126, T245
Wohlt, J. E., T40
Wolanski, N. J., 271
Wolfenden, A. D., 109, 110, 111, 114
Wolfenson, D., 931, W214
Wolford, H. M., 393, W204
Wolter, B. F., 861, T60
Wong, E. A., M99
Wood, C. H., 866, 867
Wood, D. L., T172
Woodcock, J. D., 975
Woods, S. A., M152
Woodward, C. L, M304, 123, 463, M278, M279, M289, M234
Woodward, S. L., 567
Woodworth, J. C., 630, 631, M80, T225, W6
Worku, M., T68, T69, T70, W171, W172
Worley, J., 664
Wortmann, C., 7
Wright, D. L., 55, M36
Wright, J. R., 741, M4
Wright, L. E., T222
Wu, G., 792
Wu, S. H., 67, W205
Wu, Z., M262
Wuelling, C. W., 811
Wurst, A. K., 636
Wuthironarith, V., 598
Wyatt, C. L., 299
Wyatt, C. W., 298
Wyatt, W. E., M155
Wyles, J., 806, 807

X

Xavier, E. G., 296, 409, W34
Xi, G., T152, T153, T154
Xiao, X., M99
Xie, M., T23
Xiong, R., 150
Xu, J., 366

Y

Yáñez, J., T49
Yabuuchi, Y., 393, W204
Yager, A., 87, 244, 246
Yamamoto, Y., M67, M68
Yan, F., 446
Yan, H., 147
Yang, H. Y., W46
Yang, M., 667
Yang, W. Y., W288
Yang, W. Z., 952, W107
Yang, X., T53
Yang, Y., 833
Yates, J. W., M18
Yen, J. T., T45
Yi, G. F., 574, 576, 577, 816, 817
Yin, C., M257
Yin, J., M85
Yin, Y., M81, W252
Yook, E., 739, M1
Yoon, I., 805, M161, W27
Yoon, Y. H., W281
York, T. W., 811
Young, L. L., M49
Young, M. G., 570
Youngerman, S. M., 715
Younggad, J., W250
Yousefi, M., T17, T18
Yousif, A. M., W35
Yu, H., W61, W252
Yu, P., 954, T229, W68, W134, W135
Yu, Z., 939
Yuan, J., 826
Yurawecz, M. P., 209, 777

Z

Zabala-Díaz, I. B., 463
Zahner, H., T259
Zahoor, M. A., 131, 132, 133
Zahra, L., 515
Zahran, A. S., 764
Zakizadeh, S., W300
Zamani, P., M6, M9
Zanella, A. J., 502, 503
Zangeronimo, M. G., M93
Zanghi, B. M., 375
Zanton, G. I., 210
Zapata, J., M57
Zartman, D. L., 262
Zeece, M., T158
Zeng, C., M72
Zeng, S. S., 654
Zeoula, L. M., T235, T236
Zeph, L., 684
Zerby, H., 151
Zeringue, L., 610
Zervoudakis, J., T213
Zhai, S., M33, T15, W21
Zhai, W., T113
Zhang, C., 23, 115
Zhang, H. Y., T58, T59
Zhang, L., W292, W293
Zhang, R., 956
Zhang, S., 139
Zhang, W., 442
Zhang, X., 283
Zhang, Y., 379, W143
Zhang, Z., 81
Zhao, F., 226
Zhao, H., 904
Zhao, J., 909
Zhao, X., 956, T79
Zheng, Y., 226
Zhou, G. Y., 445
Zhou, T., W61
Zhu, J. J., 283
Zhu, M., M45
Zieba, D. A., 590, M264
Zier, C., 582
Zijlstra, R. T., 89, 91, 255
Zimmerman, J. J., 719
Zinn, R. A., T179
Zinn, S. A., T132
Zuidhof, M. J., 270, 272
Zumwalt, C. D., M299
Zupp, W., W85
Zurayk, R. A., M217
Zwald, N. R, 37, 530, 734

Subject index for Volume 82, Supplement 1
(Joint annual meeting abstracts, 2004[1])

A

Abnormal distribution, 29
Abnormal meat color, M50
Abnormal spermatozoa, W159
Abortion, 96
Absorption, 138, 446
Accuracy, 893
Acetate, 152, 595, T237
Acetic acid, W293
Acetone, T205
β-*N*-Acetylglucosaminidase, 325
Acid Buf, M186
α_1-Acid glycoprotein, T64
Acidification, 244, 245
Acidified sodium chlorite, M285
Acid-labile subunit, T155
Acidosis, 153, 481, M158, T63, T198
ACTH, 922, 923
ACTH challenge, 433
Activated carbon, W273
Active yeast, M104
Activin, 307, W258, W260
Acute phase proteins, M238, T66
Acute phase response, 284, 668, 672
Acute stress, W194
Acute-phase proteins, 505
Adaptability, M25
Adaptation, 333
Additional heat, T58, T59
Adhesion, T199
Adipocyte, T117, T151
Adipose, 774, T150, W121
Adipose depot, T777
Adipose tissue, 155
Adipose tissue explants, T131
Adrenal, 922
Aerobic stability, 212, M188
Aflatoxin, 203
Aflatoxin B1, T88
Aftertaste, T279
Age, 436, M58, T160
Age at first calving, 214, 886, M2
Age at puberty, M258
Age-related macular degeneration, T270
Aging, 144, 371, 374, 488, M71, T287
AGP alternatives, M112
Agricultural change, 11
Agricultural education, 557
Agroindustrial residue, M205
Agro-terrorism, M178
Air emissions, 190, 194
Air interface, 81
Air quality, 9
Albumen quality, 321
Alcohol-fermented feedstuff with live yeast, M162
Alfalfa, 332, 568, M150, M151, M220, M278
Alfalfa grazing dairy cows, M143, M144
Alfalfa hay, T249
Alimet and DL-methionine, W14
Alkane, M129, M142, W112
Alkane markers, 567
Allele frequency, 443, 895
Allergies, 491
Allied industry, 695
Alpaca, T96, T97
Alternative, W58
Alternative therapy, W172
Alternative to antibiotics, 706
Alternatives, M103
Alveolar macrophages, 714, T61
Amide I (α-helix, β-Sheet), T229
Amino acid, 95, 193, 204, 225, 345, 346, 355, 357, 453, 459, 685, 692, 810, 813, 815, 819, 821, T29, T197, T220, T222, W1, W7, W70
Amino acid degradation, T182
Amino acid digestibility, 464, M97, T51, W19, W33, W69
Amino acid ratio, 87
Amino acid requirement, W15
Amino acid supplementation, 579
Amino acid transport, T230
Amino acid transporter, M99
Amino acid uptake, 791
Amino nitrogen, T196
Amino polysaccharide, W103
Aminolevulinic acid, 247
AMMFOR-pH, M303
Ammonia, 160, 191, 194, 278, 437, 602, 604, M263, T32, T180, W89
Ammonia detoxification, T227
Ammonia emissions, 192, 195, 603
Ammonia levels, 192
Amylase, 139, M90, M179, M200, M201
Anabolic implants, 730
Anaerobe, T8
Anaerobic fermentation, W60
Analysis, M132
Analytes, T97, T98
Anestrus, 636, M268
Angiogenesis, M255
Angiotensin, T147
Angora, W260
Angora goat, M235
Angus, 753, M20
Animal, W253
Animal agriculture, 10, 349, 350, 710
Animal behavior, W190
Animal feeding operations, 7
Animal gain, 566
Animal model, 893, M3
Animal science, 646
Animal sentience, 646
Animal waste, 698
Animal welfare, 348, W183
Animal well-being, 6
Anionic salt, W129
Annular gap expansion, W44
Anthelmintics, W171
Antibiotic, 1, 179, 246, 247, 255, 375, M82, M100, M166, T54, W167
Antibiotic alternatives, 718
Antibiotic resistance, 720, M288, T8, W270
Antibodies, 18
Antibody level, T259
Anticoccidial drug, 124
Antimicrobial, 254
Antimicrobial agents, M103
Antimicrobial resistance, M44
Antimicrobial susceptibility, 196, T81
Antioxidant, 717, T305, W46
Antioxidant effect, W281
Apeasing, 920
Apolipoprotein, T84
Apoptosis, 498, 865, M250, T162
ApoVLDLII, M39

[1]Please note: The numbers following key words in this index refer to abstract numbers, not page numbers.

Apparent absorption, 620
Apparent digestibility, W62
Apparent metabilizable energy, W22, W42, W44
Appetite, 171
Applied ethics, 350
Aquaculture, 701
L-Arginine, T102
Arthrospira (Spirulina) platensis, W280
Artificial insemination, 417, 418, W222, W223, W226
Artificial sweetener, W150
Ascites, 108, 833, T104
Ascorbic acid, 712
Aspergillus fumigatus, 480
Aspergillus meal, 110
Aspergillus oryzae, M164, M189
Aspirin, T87
Assimilation, 12, 182
Assumption testing, M138
Atlantic salmon, W74
Auditing, W183
Automatic milking system, M228
Autoregression, 27
Avian influenza, 5, 665
Avilamycin, M98
Avi-Lution, 675
Azadirachta indica, T5

B

Bacillus, M104, M106
Bacillus thuringiensis subsp. aizawai, 684
Backcross, 38
Backfat, T232, W266
Backfat thickness, M61, M69, W82
Backgrounding, 565
Backtest, T511
Bacon, M56
Bacteria, 313, 323, W252
Bacterial inoculation, M213
Bacterial NAN flow, W341
Bacterial nitrogen, 210
Bacteriocin therapy, 707
Bacteriocins, 708
Bacteriophage, 17, 130, M292
Baleage, 799
Barley, 153, 837, 953
Barley tempering, 642, T210
Barrows, 580
Bathed cows, W246
Bayesian inference, 363
Bayesian method, 32
Bcl-2, T162
B complex, 282
Beak trimming, 436, 977
Bedding material, M231
Beef, 53, 57, 328, 472, 484, 552, 777, 803, M18, M66, M133, M134, M176, M184, T183, W84, W149, W243
Beef calf, 687
Beef cattle, 173, 357, 553, 554, 565, 601, 725, 726, 748, 841, 874, 889, 891, 892, 894, M16, M17, M21, M23, M25, M145, M165, M166, M167, M171, M174, T126, T132, T181, W82, W147, W150, W151, W152, W187, W214, W216, W218, W242
Beef cow, 414, 416, M237, W189, W222
Beef heifers, 52, 415, M157, W188, W223, W228
Beef performance, M159
Beef production, 875
Beef QTL, 748
Beef quality, 230, M64, M76, T4
Beef steers, 561
Beef tallow, M75
Beef tenderness, 233
Beef trimming, 202
Behavior, 24, 276, 360, 400, 438, 502, 503, 506, 507, 510, 874, 879, 880, W185, W187
Behavioral testing, M248
Bell drinkers, M296
Belly nosing, W200, 504
Bermudagrass, 59, M152, M207
Best linear unbiased prediction, 368, 746, 893, W255
Beta-CD immobilization, T293
Betaine, T16, T52
Beverage, W282
Bifidobacteria, 972, T1, W291
Bifidobacterium, M454, W294
Bill-trimming, 439
Bioactivity, 492
Bioavailability, 167, 377, T231, W43
BioChlor, 845, 846, 847
Biodegradable, 106
Biodiversity, W190
Bioethics, 646
Biofilm, W271
Biohydrogenation, 628, M150, M151, T195, W87, W99
Bioinformatics, 898
Biological efficiency, W155
Biological replication, 751
Biological transport, T375
Biological types, W157
Bio-Mos, 435
Bioplexes, 380
Biosecurity, 176, 558
Biotechnologically derived corn, 911
Biotechnology, M305, W67
Biotin, M83
Birdsfoot trefoil, 391
Birth weight, T884
Bite mass, 389
Bloating, W209
Blood cholesterol, T291
Blood composition, T184
Blood glucose, T137
Blood meal, 945
Blood measures, W119
Blood metabolites, 797, 848
Blood removal, 146
Blue native gel electrophoresis, 136
bM3, M115
Boar, W212
Bobwhite quail, 268
Body characteristics, M272
Body composition, 370, 398, 768, 883, M32, M253, T191, W155
Body composition in vivo, W207
Body condition score, 36, M204, M229, T165, T232
Body fat, T776
Body weight, W245
Bolus, W153
Bone, 277, 410, T50
Bone ash, 407, 823
Bone breakage, 25, 303
Bone fractures, 830
Bone mineral, T116
Bone mineral density, 303, 444
Bone mineralization, T51, W23
Bone parameters, M234, M279
Bone preparation, M234
Bone-breaking strength, M234
Bordetellosis, T87
Botanicals, 690, M110
Bovine, 155, 774, 775, M252, M254, T170, W97, W232
Bovine IGF-II, 747
Bovine IGF-II receptor, 747
Bovine meat, M70
Bovine milk, 756
Bovine serum proteins, T73
Bovine somatotropin, T77, T121, T123, T164, T165, T222, T244, T788
Brahman, M24, M238, W154
Brahman steers, M22
Bratwurst, T238
BrdU, 117
Breast meat, M51
Breast meat yield, 461
Breast muscle yield, 272
Breed, 78, 647, 656, M30, W176
Breed comparison, 214
Breeder selection, T163

Breeding, 426, W253
Breeding objective, 528, 649
Breeding value, 531
Brewery grain, M65
Broiler, 120, 124, 141, 145, 192, 198, 269, 275, 278, 287, 291, 300, 437, 440, 457, 459, 461, 465, 664, 666, 667, 670, 671, 674, 675, 705, 810, 812, 813, 816, 817, 819, 821, 823, 827, 828, 829, 833, 920, M30, M272, M273, M285, M296, M299, M303, T12, T15, T94, T103, T108, W3, W9, W10, W13, W14, W24, W28, W33, W35, W37, W39, W40, W49, W50, W51, W52, W195
Broiler breeder, 122, 270, 273, 280, 304, W6, W7, W15
Broiler breeder hens, M294
Broiler breeder roosters, 107
Broiler carcass, 314
Broiler chick, 137, 292, 295, 298, 455, 460, 669, 676, T14, T21
Broiler chicken, 24, 453, W38
Broiler growth, 272
Broiler litter, 825, M302
Broiler performance, M295
Broiler production, 118, 119, 466
Bromocriptine, 780
Brown midrib, 395, 396, 951
BTSCC, 256, W248
Buffalo, 790, T282
Buffalo milk, 765, T298
Buffering capacity, 244
Bulk milk somatic cell count, W250
Bull, 97, 593, W264, M18
Business, 384
Business organization, T10
Butyrate, T237
By-product, M196, T327, T44, W82

C

Caco-2, T71
Caffeine, W276
Calcium, M81, M277, M490, M606, M857, M942, M975, M241, T128, T158, T286, T288, W73
Calcium lactate, 62
Calcium soap of fatty acids, W118
Calf, 38, 215, 217, 400, 661, 689, 591, 690, 691, 713, 805, 809, T5, T73, T74, T189, T192, W81, W207, W209
Calf birth weight, M204
Calf diarrhea, 711
Calf removal, M269, W235
Calf rumen contents, 616
Calf suckling behavior, W186
Calfhood survival, 534
Calibration, 46
Callipyge, 240
Calpain, M55
Calpastatin, M55
Calves
Calves rumen contents, 616
Calving day, 886
Calving difficulty, 29
Camel, 650
Camel milk, W297
Campylobacter, 107, 113, 274, 707, M281
Campylobacter jejuni, M273
Campylobacter spp., 318
Cancer, 310
Cane molasses, T28
Canine, 372, 376, 378, 379, 380
Cannibalism, M509
Canola, T209, W68
Canola meal, T256
Capacitation and acrosome reaction, W215
Caprine milk, 756
Capillary, W261
Carbadox, 245
Carbohydrate, 560, 840, 937, M126, T245
Carbohydrate infusion, T184
Carbon-13 fatty acids, T174
Carboxypeptidase E, 283
Carcass, 328, 336, 432, 894, 899, M48, M239, W39, W40
Carcass characteristics, 655, 911, M236, W81
Carcass components, 834
Carcass composition, 903, W48
Carcass contamination, 315
Carcass disposal, 665
Carcass grades, W147
Carcass inspection, T11
Carcass quality, 237, 803, M52, M53, M59, M165, T56
Carcass rinse, 317
Carcass traits, 656, 888, M22, M23, T37
Carcass value, 485, 486, 838, 839, T194
Carcass yield, 667
Cardiomyopathy, T83, T84
Carnitine, 304
L-Carnitine, 630, 631, T113, W6
Carnitine palmitoyltransferase, M80
β-Carotene, M79
Casein, 82, 83, 958, T179
Caseinate solution, M308
Cashmere, 868
Caspase-3, 772
Cassia tora, M219
Castration, 236, 237, 655, T145
Catecholamines, W162
Caterpillar, 96
Catfish, M60, T161
Cation-anion balance, 243
Cats, 487
Cattle, 102, 166, 200, 220, 227, 333, 399, 401, 467, 468, 471, 473, 474, 483, 485, 531, 599, 620, 721, 722, 729, 782, 784, 785, 842, 883, 921, 957, M7, M149, M163, M172, M175, M179, M236, M263, T75, T159, T169, T239, W156, W262, W263, W275
Cattle feeding, 329
Cattle waste, 605
CD14, T95
cDNA clone, M35
Cecectomy, 464
Ceftiofur, 521
Cell populations, 285
Cellulase, 616, M198
Cellulase activity, M199
Cellulolytic bacteria, T199
Cellulose degradation, T202
Central performance test, M235
Cereal, 90, M86
Certified calf sales, 553
Channel catfish, T124, T129
Cheddar cheese, 61, 62, 542, 545, T291
Cheddaring temperature, T297
Cheese, 185, 186, 188, 654, 956, 974, T270
Cheese aging, T304
Cheese curing, 184
Cheese functionality, T276
Cheese water mobility, M308
Chemical analyses, M47
Chemical changes, T303
Chemical composition, 395, M64
Chewing, 952, W107
Chewing activity, W105, W108
Chick, 141, 288, 290, 296, 450, W25, W35
Chick bioassay, 463
Chick embryo, T119, T120
Chick quality, 271
Chick weight to length ratios, M300
Chicken, 129, 197, 283, 293, 442, 444, M34, M39, M44, M292, T92, T116, T117, W46, W194
Chicken consumption, 872
Chicken gut, W252
Chickpeas, T36, T37
Chitooligosaccharide, T294
Chitosan, M30
Chlorate, W275
Chloride, 243
Chlorine, 315
Chlortetracycline, M165, W203
1-α-OH Cholecalciferol, 291
Cholecystokinin, 15, 372, 632

Cholesterol, 831, M245, M254, T33, T283
Cholesterol removal, T292, T293, T295
Choline, 515, 854, T16, W122, W123
Chop length, M140
Chop suey beans, T257
Chromium, M469, M856, M172, W5
Chromium methionine, T254
CIDR, 104, 419, M269, W211, W221, W228, W236, W238
Circadian rhythms, 507
Citric acid, 287, M295
Climate, M17
Clinical mastitis, 428
Clitoria ternatea, T249
Clostridium perfringens, 105, 345, 674, 675, 708, M294
Clover, M209
Clustering, 365
Coagulant, T299
Coagulase-negative staphylococci, T81
Coccidia, 125, T89, W45
Coccidiosis, T5
Coconut meal, W57
Coconut oil, 776, M88
Coenzyme Q_{10}, 833
Co-grazing, W181
Cold draft, W200
Colicin, 201, 718
Coliform, 317, M546
Colloidal calcium phosphates, 549
Color, 657
Color meat, M184
Colostrum, M207, M228, M229, M965, M174, M243, T188
Combined model, 749
Combustion, 8
Communities, 11
Companion animals, 488
Comparative bioefficacy, W14
Compensatory growth, 498, 768
Competency, 382
Competitive exclusion, 280, 501
Composition, 792, 860, M220, M302, T282
Composition estimation, T194
Composting, 8, 177, 665, W142
Compounds, T278
Concentrate conversion, T239
Concentrate forms, W111
Concentrate ration, M205
Concentrated milk, T301
Concentrated yogurt, W286
Conception, 422, 424, W245
Conception rate, 364
Condensed tannins, 391
Conflict resolution, 183
Conformation trait, T744
Conjugated linoleic acid, 69, 71, 72, 73, 209, 230, 231, 617, 622, 623, 624, 625, 635, 688, 776, 777, 789, 800, M182, M216, T52, T302, W46, W84, W87, W90, W91, W92, W93, W94, W98
Conjugated linoleic acid isomers, W85
Conjugated linolenic acid, 955
Connective tissue, 239
Consistency index, W248
Consumer, 490
Consumer acceptability, M64
Consumer acceptance, 232, W297
Consumer education, 183
Consumption, 971
Continuous culture, M151, M288
Continuous culture fermentation, W86
Continuous flow culture, 112
Continuous milking, 222, 788
Control, 705
Cooking losses, M57
Cooling systems, 598
Cooperative, T304
Cooperative partnership, 695
Copper, 71, 120, 468, 469, M175
Copper source, 121
Co-products, 157, M196
Corn, 168, 449, 684, 913, 953, T34, T215, W32, W39, W40
Corn grain, T186
Corn hybrids, 397
Corn mutants, T214
Corn silage, 218, 392, 393, M114, M115, M124, M140, T241, W101, W158
Corn-soy enzymes, T27, W22
Corpus luteum, M255, M266
Correlation, M29, M73, W146
Cortical bone, T109
Corticosteroid binding globulin, 512
Corticosterone, M299
Cortisol, 522, W241
Cost, T347, T304, T552
Cottage cheese, 543, 959, T285
Cottonseed meal, 447
Coturnix coturnix japonica, M26, M27, M28, M29, W2, W5, W47, W48
Country of origin labeling, 180
Cow, 806, 807, T143, T265, W100, W250, W418, W588, W589, W618, M192, M194, M206, W92, W106, W113, W122
Cow cooling, 596, 597
Cow efficiency, 887
Cow preference, M231
Cow temperament, T742
Cow-calf, 651, 688, 808, M155
Cow-calf performance, 58
Cox model, W240
COX-2, 585
CpG-ODN, 126
Crabgrass, M122
Crawfish meal, W170
C-reactive protein, T83
Creatine, M56
Creatinine, W137
Creep feeding, W80, W81
CRESTAR, W227, W230
CRH, 508
CRH challenge, 924
Crisis, 975
Crop, 106, 109, 111, 114, 313, 451
Crop composition, W64
Crop composition database, W64
Crossbred cattle, M25
Crossbred goats, W173
Crossbreeding, 41, 524, 525, 527, 532, 533, 534, 535, 536, M14
Cross contamination, 319
Crosslinking, T292
Crude protein, 356, 575, 603, 821, 915, M123
Cryopreservation, W215
Cryoscope, 47
Cryptosporidium parvum, 711
Crystals, 62
Culling, T78
Culling reasons, M227
Culture, 545, 645
Cutting height, T393, M114, M115
β-Cyclodextrin, T292, T295
Cyclooxygenase-2, T68
Cytochrome p450, W191
Cytokines, 714, T61, T62, T67, T170
Cytology, T262

D

Dahi, 765, T298
Dairy, 72, 170, 260, 261, 381, 382, 384, 385, 418, 489, 515, 523, 529, 602, 954, M140, M265, T4, T221, T233, T264, T266, T267, T272, T273, T275, T277, W131, W138, W141, W220
Dairy beef, 383
Dairy breeds, 526
Dairy bulls, M8
Dairy cattle, 103, 199, 388, 528, 536, 736, 744, 929, 934, 938, 962, M6, M9, M14, M233, M260, T82, T137, T141, W185, W213
Dairy cow, 74, 101, 165, 338, 339, 340, 341, 355, 356, 424, 425, 430, 537, 586, 619, 622, 633, 786, 931, 946, M189, M193, M200, M201, M202, M208, M210, M215, M221, M226, M228, M229, M256, M262, T175, T206, T218, T241, W86, W96, W103, W104, W116, W130, W167, W182, W183, W184, W234, W236, W239, W428, W787, W945, W953

Dairy ewe, 956, T173
Dairy feeds, 480
Dairy goat, M190, T176, T653, W166
Dairy heifer, 210, W203, W217
Dairy heifer growth, M230, W208
Dairy herd, T265
Dairy management, T963
Dairy nutrition, 944
Dairy product, 493, 971, 972, T283
Dairy sheep, 634
Dairy steer, T209
Dandarawi embryo development, M298
Database, 905
Daughter design, W259
Daughter pregnancy rate, 739, M8
Days in milk, T244
Days open, 43, 530, 535, 740, W240
Days to first service, 425
Deactivation strategies, 3
Death, W201
Decision support, T651
Deer, 592
Degradability, 56, M120
Degradation, M122, M178
Degradation rate, T213
Dehydration, T97, T98
Deicer, W292
Delayed placement, T452
De-oiled rice bran, 841
Desaturase, T174
Description, 509
Descriptive analysis, 760
Designer pork, M10
Dessert, T275
Development, T552, T660
Developmental change, T119
DGGE of ruminal protozoa, 939
Dairy Herd Improvement, T267
Dairy Herd Improvement Assoc., 519
Diafiltration, 763
Diagnostics, 178, 259
Diameter of head of tail, 425
Died, T265
Diet, T76, W150
Diet acidification, 246
Dietary cation-anion difference, 476, 477, 518, 852, 857, W129
Dietary copper, 831
Dietary crude protein, 476, T242
Dietary factors, T17
Dietary fat, T234, T235, M76
Dietary fiber, 600
Dietary functional ingredients, 147
Dietary melatonin, M109
Dietary protein, T190
Dietary treatments, T18
Differentiation, 496
Digestibility, 376, 377, 393, 457, 458, 564, 613, 909, 917, 932, 933, 935, 954, M95, M129, M221, M222, T22, T35, T39, T209, T247, T252, W95, W101, W117, W132
Digestible energy, 91
Digestible intake protein, M119
Digestible lysine, T38
Digestion, 371, 569, 837, 938, 951, M154, T206, T215, W136
Digestion rates, 621
Digestion site, 842
Digestive enzymes, 139
Dilution rate, W99
Dioxin, M38
Direct-fed microbial, 941, 853, M191
Disaccharidase, 773
Disease, 881
Disease resistance, 35
Diseases, T77
Disinfectant lubricant, W211
Distance education, 696
Distichlis grass, W301
Distiller's dried grain, 449, 413
Distiller's dried grains with solubles, 448, W19, W26, W80
Distiller's grains, 329, W32
Distiller's wet grains, M127
Diurnal effects, T189
Diversity, M121
DL-Methionine, T21
DNA, 757
DNA sequence, W269
Dog, 370, 371, 374, 375, 377, 487
Dog guides, 648
Double ovulation, W214
Drinking, 878
Drinking behavior, M173
Drinking water, M303, W158
Dromedary camels, W301
Dry matter disappearance, M163
Dry matter intake, T238, W115
Dry period, W130
Dry period length, M225
Dry skim milk, T45
Drying methods, M132
Drying technique, T214
Dual energy x-ray absorptiometry, 661, T116, W23, W207
Duck, 293, 682, 770
DUHi, W261
Duodenal flow, W618
Duodenal mitochondria, 135
Duodenal mucosal cells, T227
Dust, T664
DVE.OEB system, W134, W135
Dystocia, 29, 524, 527, 533

E

Ear tag, W153
Early deboning, 149
Early finishing gilts, 577
Early gas, 546
Early intestinal development, T456
Early lactation, 786, T222
Early metabolic disorders, 37
Early nutrition, 835
Early postpartum, T128
Early weaning, 838, 839, M237, T194
Early-weaned pigs, 579
Eastern gamagrass, M125
Eating behavior, 727
Eating quality, 902
Echinocloa polystachya, M219
Economic competition, 348
Economic weight, T739
Economics, 260, 359, 390, M240
Edible covering, 392
Editing methods, 175
Education, T269
Efficiency, 725, M169, T185
Egg, 815, M46, T19
Egg characteristics, 127
Egg commercial categories, 679
Egg components, 326
Egg composition, 434
Egg consumption, 872
Egg fertility, M301
Egg injection, 267
Egg measures, M29
Egg processing water, M47
Egg production, 23, 115, 270
Egg quality, 326, M27, M278, W5, W11, W47, W55
Eggshell, 312, M279
Eggshell conductance, 267
Eggshell membrane, 325
Egg solids, 677
Egg storage, 321
Egg temperatures, 322
Egg transport, T322
Egg weight, M300
Egg yolk color, W59
Eggs set, M31

Egyptian soft cheese, 764
Eimeria, 124, 281, T90
Eimeria acervulina, 126
Eimeria resistance, T259
Electrical consumption, T25
Electrical stimulation, M49
Electrolytes, 405
Electron beam irradiation, 320
Electronic identification, W153
Electronic nose, 544, T289
Electrostatic, 664
Embryo, 98, 586, M250, T105
Embryo development, M301
Embryo loss, M11
Embryo model, T115
Embryo survival, 267
Embryo transfer, 104, 882, 884, 964, W226, W241
Embryogenesis, 304, 312
Embryonic fluids, 770
Emission estimates, 9
Emission mitigation, 9
Emissions, 278, 602
Empirical, T203
EMS, 559
Emulsifying capacity, M57
Emulsifying salt, T549
Emulsion stability, T271
Endogenous, 411
Endogenous energy losses, W21
Endogenous loss, 293
Endogenous loss of P, 412
Endometritis, 513
Endometriosis, T80
Endophyte, 52, 56, T75
Endosperm, M951
Endotoxin, 714, 931, T65, T66, T67, T95
Energetic efficiency, 721
Energy, 91, 116, M77, T59, W179, W180
Energy allocation, W74
Energy balance, 479, 584, W102
Energy expenditure, 400, 729
Energy metabolism, M483, M622
Energy requirement model, W20
Energy restriction, 677
Energy supply, 156
Energy systems, T31
Engineering, 176
Enhanced biological phosphorus removal, 961
Enrichment, W195
Enrofloxacin residues, 197
Enterobacteriaceae, 324
Enterococcus faecium, T3
Enterocyte, T118
Environment, 386, M93, T195, T349, T387, T599, T643, T700, T701, T871, M43, T178, W144
Environmental assessment, T559
Environmental enrichment, W187
Environmental excess, 644
Environmental pollution, 663
Enzymatic hydrolysate, M42
Enzyme, 125, M41, T17
Enzyme activity, 155, T120
Enzyme meta-analysis, 679
Enzymes, 615, W29
Epistasis, 745
Eprinex, T76
Eprinomectin, T76
Equine, 80, 96, 702, M264, W231
Equine practicum, M693
Equivalence, M220
Ergovaline, T71, T72
Escherichia coli, 17, 248, 292, 317, 463, 516, M106, M169, W61, W161, W274, W275
Escherichia coli O157, 200
Escherichia coli O157:H7, 187, 201, M161, T2, W276, W284
Escherichia coli phytase, 298, T14
Escherichia coli survival, 184
Essential oil, 88, 211, 674, M159, T177, W49, W61, W86, W89
Essential oil blend, T200, W88
Esterase, M178
Estradiol, 102, 584
Estradiol cypionate, W225
Estrogen, 221, 264, 354, T110, W235
Estrogen receptor, 353
Estrus, 594, 877, 931, W233, W244
Estrus detection, T263
Estrus expression, W225
Estrus synchronization, 189, 414, 415, 416, 417, 530, W216, W222, W223
Ethanol metabolism, W288
Ethics, 645
Euthanasia, W201
Evaluation, T268
Ewe, 478, 636, T262
Excretion, 473
Excretion models, 697
Exercise, 79, 80, M247
Exit velocity, 433, 924
Exogenous fibrolytic enzyme, M180
Exogenous proteolytic enzyme, 613
Exopolysaccharides, 765, W290
Expander cone pressure, W42, W43
Expected progeny difference, M19
Experimental chlorate product, T105, M276
Extended lactation, T176
Extension, 178, 181, 183, 386, 558, 866, 867, T266
Extension programs, 555, 556
Extracellular matrix, 779, T162
Extrusion, 841
Extrusion technology, 760

F

Facilities, 596, 597, 598
Farm systems, 390
Farmer participatory research, M10
Farrowing mortality, 906
Fasting, T129
Fat, T238, T627, T632, T850, M63, T277, T283, T298
Fat-corrected milk, M6, M9
Fat level, T91
Fat mobilization, 70
Fat restriction, 677
Fat supplement, M253
Fat-soluble vitamins, T74
Fattening pigs, 94
Fatty acid, 74, 94, 586, 628, 629, 633, 654, 691, 800, 803, 880, 956, M73 M75, M133, M216, T195, W87, W95, W96, W97, W113
Fatty acid metabolism, M630
Fatty liver, W123
Fatty liver hemorrhagic syndrome, T17, T18
Fayoumi, 326
Fc receptor, T69
FcRn, 228
Fear, 438
Feather cover, 438
FEB-200, M242
Fecal bacteria, W144
Fecal contamination, 314, W161
Feces, 606, T11
Feed, 19, W53
Feed additives, W54
Feed barrier, W184
Feed efficiency, 134, 135, 136, 173, 174, 443, 728, 753, 859, 883, 892, 933, 977, M18, M26, M171, T99, T100, T163, W263
Feed enzyme, W72
Feed intake, 172, 174, 175, 276, 844, M17, T112, T127, T189, W57, W127, W128, W174, W179
Feed management, T643
Feed processing, 917
Feed restriction, T108, T136
Feed supplements, 252
Feed withdrawal, 313
Feeder, 795
Feeder space, T60

Feeding behavior, 430, 600, 629, 844, W182, W184
Feeding sites, W144
Feeding time, 430
Feeding trial, 799
Feedlot, T327, T604, T724, T730, M176, T178, W145
Feedlot bulls, M65
Feedlot cattle, M158, M161, T186, W158, W274
Feedlot performance, 158
Feedlot profits, 484
Feedlot steers, 157, 432
Feeds, 701, M91
Feedyard, W148
Feet dermatites, 825
Feline, 378
Female, M5
Fenbendazole, W145
Fermentation, 327, 451, 614, 937, M214, T220
Fermentation characteristics, T28
Fermentation rate, 842
Fermentation time, W298
Fermented, T272, T273
Fermented bagasse, T252
Fermented feedstuff, M164
Fermented fish, W56
Fermented milk, T284
Fertile eggs, M31
Fertility, 97, 364, 423, 526, 527, 532, 535, 593, 636, 886, M5, M8, M11, M31, W220, W234, W245
Fertilizer, 55
Fescue, 52, 806, 807, M154, M242, W139
Fescue toxicosis, T71, W191, W192
Fetal heart, T147
Fetal loss, 103
Fetal mortality, 99
Fetus, 429, 478
Fiber, 379, 568, 569, 915
Fiber digestibility, 397
Fiber effectiveness, W105
Fiber source, 835, W41
Fibrolytic enzymes, M196, M197, M199
Field study, M200, M201
Field tick bean, W135
Fillet, M60
Finance, W247
Financial, 960, T264
Finishing, M135
First calving interval, 214
First lactating cows, W240
Fish meal, 114, 585, T190, T250
Fish oil, 72, 625, T138, T140, W94
Fixed time AI, W235, W216
Flavor, M110, T278, T279, T302
Flavoring base, M42
Flaxseed, 255, 331
Florida, M14
Fluid milk, T302
Flunixin meglumine, 104
Fluorescence, 45, T11
Folate, T19
Follicle, T108
Follicle size, 99
Follicular development, M254
Follicular diameter, W227
Foodborne pathogen, 16, 19, 319, 501, W270
Food costs, 350
Food deprivation, W47, W48
Food microbiology, M304
Food prices, 348, 349
Food safety, 16, 196, 383, 696
Food scarcity, W162
Food waste, T40
Forage, 55, 394, 468, 565, M132, M133, M134, M137, M216, M218, T96, T218, T235, W114
Forage:concentrate ratio, M192
Forage feeding, T243
Forage intake, M145, W173
Forage maturity, 562
Forage millet, T395
Forage neutral detergent fiber, 949
Forage quality, 568, 933, M113, M116, M117, M125, M153
Forage yield, M117
Foraging, W189, W190
Formic acid treatment, M213
Fortification, 489
Free stall, W303
Free range, 145
Free-stall base, M231
Frequent milking, 785
Frizzle gene, 286
Frozen storage, 548
Fulbright, T181
Fumarate, 334
Fumonisin B1, W272, W273
Function, 916
Functional foods, W285
Functional properties, M50
Functional survival, 733
Functional traits, 734
Functionality, 45
Furnished cages, W193
Fusarium mycotoxins, T26
Fusobacterium necrophorum, 475
Futures, 966

G

Gain, 802
Gain efficiency, 726
Gait abnormalities, W195
Galactose, M280, T284
α-Galactosidase, 287
Gamagrass, 560, 561
Gametic matrix, W265
Garlic, 940
Gas chromatography olfactometry, 48
Gas production, 614
Gaseous emissions, W143
Gastric ulcers, 78
Gastrointestinal, 130
Gastrointestinal tract, T204, T455, T721, M194
gdhA gene, W66
Gelatinization, T216
Gender ratio, W229
Gene, M259, M261, T114, T155, W16
Gene cloning, M35
Gene expression, 220, 352, 365, 495, 754, 774, 865, M85, M168, T112, T133, T135, W256
Gene mapping, M258
Genealogy, 362, W257
General pedigree, W254
Generalized immunity, 35
Genetic, 34
Genetic base, 735
Genetic correlation, 36, 732, 888
Genetic diversity, 890
Genetic estimation, W300
Genetic evaluation, 35, 40, 42, 173, 364, 536, 648, M23
Genetic groups, 746
Genetic influences, M12
Genetic parameters, 26, 37, 740, M2, M3, M22
Genetic prediction, 363, 887
Genetic selection, 67, W194
Genetic traits, T260
Genetic trend, 891
Genetically modified corn, W65, W66
Genetics, 650
Genome map, 905
Genomics, 351
Genotype, 771, 919
Genotype × environment interaction, 31, M2
Germanium, T23
Germanium biotite, W11
Gestating sows, 792
Gestation, 22, 431, 506, 918, 923
Gestation housing, W197

Gestation length, 882
Gestation stall, W198, W199
Ghrelin, T112, T126, T234
Gilt, 778, 858, T361, T918, W77
Gir, 660
Glucagon-like peptide-1, 15
β-Glucan, 712
Glucanase, 680, W17
Glucanase, xylanase, M90
Glucocorticoid receptor, 775
Glucogenic compounds, W119
Glucogenic precursors, W118
Glucometers, T137
Gluconeogenesis, 141, W1, W121
Glucose, 152, 225, 469, 471, 531, 591, M77
Glucose kinetics, W126
Glucose tolerance test, T856
Glucose transport, T226
Glucose uptake, 226
Glutamate dehydrogenase, 913
Glutamine, 170, 455
Glutathione peroxidase, 828
Glutathione sulfhydryl, W281
Glycerol, 849, W120
Glycine, W4, W12
Glycogen depletion, M50
Gnotobiotic, 772, 773
GnRH, 219, 311, 636, M264, W219
GnRH agonist, W224
Goat, 39, T652, T655, T657, T870, M139, M141, W162, W163, W164, W165, W168, W170, W171, W172, W174, W175, W176, W177, W178, W179, W180, W181, W299
Goat cheese, 548, T303
Goat fibers, 868
Goat kids, W169
Goat meat, T869
Goat milk, 654, T290, W167
Goat performance, W160
Gonadotropin, 594
Gossypol, 101, M203, M250
Gossypol isomers, 447
Grain conditioner, M181
Grain processing, 936, M181
Grain sorghum, M118
Grain sorghum silage, M124
Granulosa cell, M251, T107
Grass, M153
Grass forages, M148
Grass silage, 948, M202
Grass-fed beef, 232, T10
Grazing, 30, 537, 563, 950, 960, M142, T253, W164, W165, W180, W251
Grazing behavior, 389, M149
Grazing cows, M126, T245, W112
GRF, W206
Grid marketing, 484
Grinding and heat treatment, M208, W108
Growing pigs, 576, T40, T53
Growth, 87, 242, 275, 398, 405, 499, 500, 573, 574, 576, 577, 578, 660, 661, 722, 769, 801, 814, 822, 885, 889, 903, 914, 916, M12, M92, M94, M100, M147, T54, T144, T146, T159, T180, T243, W13, W25, W56, W79, W173, W174, W202, W267
Growth curve, 270, M7
Growth factor, T62, T156
Growth hormone, 76, 445, 769, T122, T126, T142, T144, W264
Growth hormone receptor, 587, 927, T127, T143
Growth parameters, M32
Growth performance, 669, 676, M107, M109, T15, T23, T36, T41, T246, T254, W2, W35, W38, W151, W152
Growth potential, 834
Growth promoters, 668, 672
Growth promotion, M84
Growth rate, 271
Growth standards, W208
Guar, 23, 115
Guar gum, M280
Guinea fowl, M36, W56
Gut, T45
Gut development, T108
Gut histometry, M102
Gut hormone, 14
Gut morphology, 374

H

4-H, 385
Hair sheep, M160, T256, T261, T263
Half-sib analysis, 901
Halofuginone lactate (Halocur), 711
Handling, 143, 269
Hanwoo steer, M182
Hatchability, M28, M300
Hay, M137, M141, M207
Health, 34, 38, T272, T273, T275, T277
Heart, T105
Heart rate variability, 506, 507
Heat abatement, T597
Heat challenge, T75
Heat index, 43
Heat processing, 910, W41
Heat production, 159
Heat stress, 301, 523, 596, 598, 599, 600, 601, 610, 611, 623, 929, M232, M233, T106, T107, T130, T141, W192, W242
Heat treatment, M309, T185, T280
Heat-induced complex, 82
Heatsynch, 420
HeatWatch, W244
Heel erosion, T82
Heifer, 353, 417, 470, 497, 499, 500, 590, 730, 804, M249, T172, T191, W221, W233
Heifer growth, W204
Hemodynamics, T103
Hen, 302
Hen-day production, 686
Hens eggs, 831
Hepatic genes, 926
Hepatic metabolism, W97
Hepatocyte growth factor (HGF), M72
Herb extract, T55
Herbal, T22
Herbal extract, M84, M107, M108
Herd size, M227
Herdlife opportunity, M1
Herdsman, 381
Hereford cattle, 890
Heritability, 31, 175, 530, 881, 892, W146
Heteroscedasticity, 30, 31
Heterosis, 532
High-oil corn, 663
Hispanic-style cheese, T287
Holstein, 33, 732, M176, T244
Holstein cattle, 427
Holstein steer, W206
Holstein jersey, 534
Hoof, T82
Hoof quality, 165
Horizontal transmission, 107
Hormonal implants, W152
Hormone profiles, T129
Hormones, 352, T119
Horse, 75, 78, 79, 555, 556, 878, M241, T156, W73
Horseback riding, T268
Horses, 77, M247
Hot list, T257
Housing, 22, 431, 918, M240
HSPA2, W268
Hybrid vigor, 526
Hydration, 876
Hydrogen sulfide, M209
Hydrogenated fats, 94
Hydrolysate, M41
2-Hydroxy-4(methylthio)butanoic acid, 138, 811, 816, 817, 939, T3, T149, T221, W3
Hydroxy-4-(methylthio)butanoic acid, 832
β-Hydroxybutyrate, 152, 848

25-Hydroxycholecalciferol, 122
3β-Hydroxysteroid dehydrogenase, T107
Hyperinsulinemic euglycemic clamp, 216
Hyperspectral imaging, M301
Hyperthermia, 930
Hypertrophy, 140
Hypocalcemia, 857

I

Iberian pig, M52, M53, T52
Ideal pattern, T29, 793
Ideal protein, W75
Ileal digestibility, W29
Ileal P, 294
Image analysis, M67, M68
Immigration, 182
Immobilized cells, 764
Immune, 20, 21, 919, W131
Immune development, T285
Immune function, 215, 227, 713, 782, 925, T23
Immune modulation, 491
Immune response, 170, 279, 687, 717, 862
Immune tolerance, T65
Immunity, 716, T63, T94
Immunization, 126
Immunoassay, T2
Immunobiotics, 757
Immunocompetence parameters, 286
Immunoglobin supplementation, T59
Immunoglobulin, M243
Immunoglobulin G, 638, 639
Immunoglobulin-1, T188
Immunoglobulin-1 polymorphism, T132
Immuno-labeling, 81
Immunosuppression, 480
Impedance, 47
Implant, T264, W148, W206
Imprinting, 747, 755, 896
In situ, 936
In situ disappearance, 394
In vitro, 345, 346, 624, M154, M289, T211, T217
In vitro degradation, M198
In vitro dry matter digestibility, M123
In vitro fertilization, W159, W232
In vitro production, 427, W213
Inbreeding, 529, 890, W186, W253
Income quintile, 872
Increased milking frequency, 786
Increasing intake, 975
Incubation, 268
Incubation light, M298
Incubations, W114
Index, M232
Indigestible neutral detergent fiber, M145, T213
Indirect ELISA, T90
Induced lactation, 229
Inducible nitric oxide synthase, T67
Industry nutritionists, 643
Industry programs, 971
Infectious bursal disease virus, 131, 132, 133
Inflammation, 120, T79
Infrared milk analysis, 46
Infusion, M267
INHBB, W258
Inhibin, 307, W258, W260
Inhibitor, W140
Innate immunity, T79
Inoculant, T612, M118, M124
Inoculation, 396
Inside-outside bird washer, 314, 315
Insoluble calcium, 538
Insoluble calcium phosphate, T276
Insulin, 15, 522, T157
Insulin resistance, 75
Insulin sensitivity, 216
Insulin-like growth factor, 770, 863, T155, T156, T166, T167
Insulin-like growth factor binding proteins, 588, T153, T154
Insulin-like growth factor-I, 76, 402, 587, 927, T122, T124, T154, W263
Insulin-like growth factor-I polymorphism, T132
Intake, 567, 632, 950, M121, M126, M129, M136, M249, T179
Intake and digestion, M180
Intake behavior, W188
Intake rate, 389
Integrated systems, 608
Interactive learning, 695
Interbull, 42
Interdisciplinary, 871
Interferon, M267
Interleukin-Lβ, 716
International, 34, 181
International evaluation, 736
Internet, T556, T266
Intervention strategy, 201
Intestinal, 698
Intestinal development, T452
Intestinal digestibility, T207, T224
Intestinal digestion, T211
Intestinal health, 579
Intestinal microbiota, M112, M286
Intestinal morphology, 249
Intestinal phytase, 137
Intestine, 465, M99, T230
Intrauterine growth retardation, 398
Inulin, 249, T1, T118
Inulin, avilamycin, M101
Invasion, M275
Invasion assay, 60
Iodine, 638
Ionized calcium, T202
Ionophor, M185
Ionophore, 662, 969, M160, M166, M167, W202
Irradiation, 147, M45
Isolation, T85
Isoleucine, 581
Isopropanol, T205
ITS, T117

J

Japanese quail, 312
Jejunal absorption, 771
Jersey, 733
Jersey calves, T188
Jersey cows, W117
Johne's, 259, 260
Judicious use, 179
Jugular infusion, T222

K

κ-Casein, 51, T271
KEM SAN liquid acidifier, M287
Keratinase, 2
Kernel processing, 218
Ketone bodies, 70
Ketosis, 851
Kinetic, 628
Kinetic parameters, T213
Kluyveromyces spp., W287
Knowledge base, 866
Korean cattle, T193
Korean native bulls, M162
Korean native chicken, M35
Kura clover, M130

L

Labeled lactoglobulin, M307
Labor, 176
Lactase, T30

Lactate dehydrogenase, 401
Lactating, M226
Lactating cows, 206, 213
Lactating dairy Cows, 344
Lactating sows, W78
Lactation, 253, 262, 360, 361, 582, 583, 793, 794, 795, 859, M185, T135, T171, W73, W75, W76, W102
Lactation curve, 224
Lactation curve shape, 28
Lactation number, 741, M4
Lactic acid, 202, 250, 251, W279
Lactic acid bacteria, W288, W290
Lactic acid-producing bacteria, W60
Lactobacilli, 109, 128
Lactobacillus, 252, M290
Lactobacillus buchneri, 212, 612, M188
Lactobacillus casei, W298
Lactobacillus gasseri, 757
Lactobacillus plantarum, T3
Lactobacillus reuteri, W294
Lactobacillus rhamnosus, 123
Lactococcus lactis subsp. *cremoris*, W280
Lactococcus lactis subsp. *lactis*, W280
Lactogenesis, 780
Lactoglobulin binding, 84
Lactose, 249, 908, M86, M101, T284
Lacz, T30
Lamb, 640, 641, 879, M58, T64, T160, T261
Large round bales, M137
Lasalocid, M65
Laser capture microdissection, 495
Latino, 182
Lauric acid, M215
Layer strain, 321
Layers, 25
Laying hen, 23, 115, 297, 301, 435, 447, 673, 679, 680, 681, 824, 826, M276, T106, W11, W17, W29, W30, W55, W59
Laying index, 673
Laying type-pullets, W20
Laying-type pullet lineages, M32
Leadership, T269
Lean growth, 860
Learning, 502
Least squares, 366
Legendre polynomial, 369
Legume, M139
Leptin, 154, 171, 217, 241, 589, 590, 962, T150
Leptin receptor, T149, T150
Leptin SNP, 224
Leucaena leucocephala, W168, W299
Leucine, 767, T180
Lifetime net income, M1
Lifetime productivity, 858
Light backscatter, T285
Light intensity, 269
Light oxidation, T289
Lighting, 143
Lighting program, M142
Lignin, 397
Line cross, 901
Linear spline function, M21
Line-cross halfsib analysis, 749
Linkage disequilibrium, M752
Linkage disequilibrium mapping, 897
Linoleic acid, W100
α-Linolenic acid, 331
Linseed, 231
Lipgenesis, W16
Lipid, 127, T33
Lipid metabolism, M854, T131, W84
Lipid oxidation, T305
Lipid profiles, 855
Lipid supplementation, 687
Lipogenesis, T114
Lipoic acid, 717
Lipolysis, 49, W121
Lipopolysaccharide, 826, T61, T104
Lipotoxicity, 140
5′Lipoxygenase, T70
Liquid eggs, 434
Liquid feeding, M97
Liquid manure, 607
Liquid whey, M217
Liquid-liquid extraction, W293
Liquid-type yogurt, W298
Listeria, M43
Listeria monocytogenes, T86, W271
Litter, 266, 666, W36
Litter quality, 668, 672
Litter size, 906
Livability, M287
Live yeast, M190
Liver, 65, 67, 630, 930, T18, T110, T133, T134, T136, T142, T143, W122, W127, W205, W210
Liver fat, W119
Liver gluconeogenesis, T121
Liver lipids, T123
Liver tissue, W166
Livestock, 10, 177
Llama, T96, T98
Long-term frozen-storage, T303
Long-chain fatty acids, 620
Longevity, 33, 731, M15
Longissimus dorsi, M204, T232
Longissimus dorsi area, M61
Long-term, M262
Loss tangent, T276
Low density lipoprotein receptor, 207
Low phytate corn, 295
Low protein, 193
Low-protein diets, 110
Low-fat dairy products, 976
Low-phytate soybean meal, T13
L-Selectin, 716
Lutein, T91, T270
Luteinizing hormone, 590, 877, W163
Luteinizing hormone surge, M270, M271Luteolysis, 957, W239
Lymphocyte, 284, T100, W295
Lysine, 85, 284, 448, 457, 460, 461, 570, 571, 572, 573, 575, 578, 820, 822, 945, M93, T219, W10, W43
Lysine bioavailability, 463
Lysine level, T145
Lysine requirement, T792
Lysozyme, 325
Lytic bacteirophage, 708

M

M17 broth, W294
MABLUP, W265
Machine milking, M177
Macrolide, 720, T8
Macrophage, M38, T91, T93
Magnesium, T57
Maintenance, 862, 887
Maintenance energy expenditures, W102
Maintenance energy requirements, 154
Maintenance requirement, W7
Maize, 684, 912, W10
Maize by-products, 329, 330, 332
Maize processing, 332
Malate, M187
Male, M5
Male fertility, 525, 738
Malic acid, 619
Mammary, 351, 354, 495, 499, T134, T167, T170
Mammary cancer, 789
Mammary cell proliferation, 498, 788
Mammary development, T353, T497
Mammary epithelial cells, 60
Mammary gland, 220, 221, 226, 352, 783, 791, T139, T168
Mammary gland development, T659, T778
Mammary growth, 68, T172
Mammary stem cells, 494
Mammogenesis, 494

Management, T194, T258, T261, T384, T264, W247
Management practices, 554
Management-intensive grazing, W157
Manager, 382
Manganese, 169, 470, 471
Mangrove leaves, W54
Mannan oligosaccharide, 253, 379, 673, M224, M243, W78
β-Mannanase, 670, 671
Mannose, M280
Manure, 441, W138
Manure composition, 961
Manure evaluation, W109, W136
Manure nitrogen content, T815
Manure nutrients, 12
Marbling, 474, M68, M77, W266
Marbling score, T193
Marination, 148, 149
Marker-assisted selection, 368, 746, W255
Marketing, 869, T4
Mash, 116
Mass balance, 190, 440, 697
Massage, M247
Mastitis, 66, 516, 519, 520, 521, 715, 790, 958, T79
Maternal, 881
Maternal lines, 286
Maternal nutrition, W79
Maternal permanent environmental correlation, M16
Mathematical models, 28, 358
Maturity, 737
MCHC, M212
MCMC, W265
Mean rumen pH, W105
Meat, T239, T870, M49
Meat and bone meal, 683, M282, T46, W18
Meat composition, M162
Meat goat, 336, 560, T656
Meat performance, M33
Meat quality, 143, 147, 331, 404, 822, 902, M66, T48, T55
Meat-type chicken, M33
Mechanical composting, 441
Mechanically processed barley silage, M120
Media, 318
Mediterranean, M62
Megalin, 207
Meishan, W196
Melengestrol acetate, 302
Melt, T550, T551, T274, T286
Melt analysis, 762
Melt characteristics, W289
Meltability, 538
Membrane potential and H_2O_2 production, 135
Meta-analysis, M236
Metabolism, M14, M159, M205, M482, M631, M840, T235, T236, W16
Metabolism assay, T38, T39
Metabolites, W120
Metabolizable energy, 683, 685, T46, W18
Metabolizable protein, 357, T253
Methane, 334, M293
Methionine, 118, 119, 138, 156, 343, 378, 572, 811, 812, 816, 817, 945, T15, T219, T221, T231, W8
Methionine analogs, 213
Methionine hydroxyl analog (AT 88), T21
Methionine metabolism, T120
Methionine sources, 810
Mice, 172, T146
Microalgae, T3
Microarray, 482, 659, 751, 754, 779, 780, 930, M38, T130, T133, T134, T136, T148, T151
Microarray ELISA, T158
Microbes, T45
Microbial contamination, W301
Microbial ecology, M293
Microbial efficiency, T204
Microbial enzyme activity, 616
Microbial fermentation, 942
Microbial growth, 619
Microbial nitrogen, W83
Microbial nitrogen flow, T242
Microbial nitrogen synthesis, T217
Microbial phytase, 137, W30
Microbial protein, 206
Microbial synthesis, T196
Microbiota, 698
Micrococcus, 764
Microencapsulation, T294
Microfiltration, 540, 542, 759, 763
β2-Microglobulin, 228
Microorganisms, 3
Microsatellite, W262
Microsatellite markers, 748, M36
Microscopic evaluation, M51
Microstructure, T301
Microtiter plate assay, 123
Microwave toe treatment, T142
Mid-lactation, 941
Milk, 203, 258, 652, 763, 784, M187, M206, T238, T278, T279, T282, T289, T294, T300
Milk adulteration, 47
Milk ammonia, T223
Milk and cheese, W90
Milk collecting center, W249
Milk composition, 943, M143, W103, W111
Milk constituents, T164
Milk ELISA, 259
Milk fat, T623
Milk fat depression, 69, 209, 617, 625, 626, W91
Milk fat synthesis, T174
Milk fatty acids, 634, 688, W98
Milk fever, 518
Milk flow, W32, W742
Milk partitioning, T173
Milk powder, T305
Milk prices, 966
Milk production, 211, 610, 627, 799, 928, M120, M143, M177, M186, M203, M225, M233, M256, T78, W96, W101, W103, W110, W111, W115, W226, W246, W299
Milk production efficiency, W109
Milk production heritability, W300
Milk products, T280
Milk progesterone, W237
Milk protein, 69, 81, 549, 948
Milk protein regulation, 225
Milk quality, 520, W247
Milk replacer, 689, 692, W204
Milk supplement, T796
Milk urea nitrogen, T223
Milk yield, 27, 340, 611, 613, 631, 658, 741, 943, M4, M191, M228, T76, T165, T175, T245, W176
Milking frequency, 781, 787, T173
Milking shorthorn, 736
Milled and stirred curd, 545
Mimosa, W169, W181
Mineral, 162, 169, 404, 411, 467, 639, M82, T48, W28, W164, W165
Mineral retention, 300
Mineral supplementation, 406
Miniature cattle, T122
Minimal model, 75, 216
Minority farmers, 710
Mintrex, 832
Misclassification, 754
Mitochondria, 728, T101
Mitochondrial complex activity, 134
Mitochondrial proteins, T99, T100
Mixed effects model, W256
Mixed models, 367
Mixture enzyme, 614
Mixture model, 39, 366
Mobile bag, T207
Mobility, W212
Model, 390
Model cheese, T297
Model cheese system, M308
Modeling, 403, 700, T204
Mohair, 868, M235
Molasses, 168, 467, 804, M175, W302
Molecular dynamics, M307

Molt, T681, M275, W193
Molting, 302, M276, M277, M278, M279
Monensin, 515, 771, 797, 798, 851, M159, M268, T177, T236, W116, W126
Monitorization, W182
Monozygotic, M260
Monte Carlo, 621
Morgan horses, M248
Morphology, T139
Mortality, 177, 706
Mouse, 241
Mozzarella, 540, 551, W289
mRNA, M251, T168
mRNA expression, 306
Mucin, 450
Mucuna, W52
Multi-county outreach, 555
Multiparous sows, W75
Multiple ovulation, M256
Multiple trait, T369
Multitrait across-country evaluation, 731
Murrah, M62
Muscle, 117, 399, M63, M72, T152, T153, T154, W85
Muscle area, M67
Muscle fiber, W261
Muscle mitochondria, 753
Muscle profile, 657
Muscle tissues, 197
Mushroom, T69
Mutant protein, 84
Mutation, T144
Mycobacterium avium subsp. paratuberculosis, 60
Mycoplasma gallisepticum, 127
Mycotoxin, 3, 212, M111
Myoblasts, 240
MyoD, T161
Myofibril proteins, M51
Myosin light chain, 1, 233
Myostatin, 241, T161

N

Naloxone, 877
National ID, 180
Natural antimicrobial compounds, 19
Natural pigment additive, W55
Necrotic enteritis, 105, 671
Neem, W171
Negative energy balance, 513, 517
Nellore, M167, M268, W227, W230
Nematodes, 637
Neonate, 880
Net energy, 932, M52
Net energy efficiency, M6
Neuroma, 436
Neuropeptide Y, 171
Neutral detergent fiber, W110, W160
Neutral detergent fiber digestibility, W110
Neutrophil, 715, 865, T68, T69, T70, T93
NFC, 937
NFD_m, M50
Niche markets, M10
Nicotinic acid, W128
Nipple drinkers, M296
Nitric oxide, 864, M170, T102
Nitrocompound, 16, M293
^{15}Nitrogen, T228
Nitrogen, 193, 330, 337, 342, 437, 440, M122, M195, T178, T225, W36
Nitrogen balance, 337, 603, 909, M205, M213
Nitrogen efficiency, 210, T218
Nitrogen fertilization, M119, M128
Nitrogen metabolism, T228, W88
Nitrogen partitioning, W132
Nitrogen retention, 156, T42, W42, W44
Nitrogen utilization, 947
No dry period, 222, 223
Nonesterified fatty acid, 217, 517
Nonfiber carbohydrates, 634, 937
Nonforage fiber sources, W160
Nonlinear models, M7
Nonparametric linkage analysis, 897
Nonphytate phosphorus requirement, T827
Nonprotein nitrogen, T226
Nonstructural carbohydrates, M148
Normalization, W256
Northern Thailand, W249
Novel arena/object test, W199
Novel endophyte, 57
NRC dairy model, W134
NRC 2001 model, W135
NSAID, T68
Nucleotide, 215
Nursery pig, 247, 570, 571, 572, 574, M83
Nursing, 504
Nursing behavior, W196
NutriDense, T241
Nutrient, 666, T702, W64
Nutrient availability, 644
Nutrient digestibility, 947
Nutrient digestion, 836
Nutrient excretion, 158
Nutrient flows, 338
Nutrient management, T7, T330, T386, T387, T388, T697, T700
Nutrient requirements, 77
Nutrient utilization, 292, T53
Nutrition, 343, 399, 592, 659, 713, 722, 864, T234
Nutrition postpartum, M588
Nutritional models, 621
Nutritional requirements, T238
Nutritive value, 562, 615

O

Obesity, 13, 372, 487, 488
Obstacles and contributions, 710
Odor, 191, 511, M169, W143
Odor detection threshold, W71
Oil, 802, T32, T33
Oligonucleotide, 758
Oligosaccharide, 464, W70
Omega-3 fatty acid, 955, W85, W90
Oncorhynchus mykiss, M59
Oncogene, 282
One-step RT-PCR, 131
Online, 866
Ontogeny, M80
Oocyst, T259
Opioid antagonist, T128
Optimization, W189
Oral, 719
Oral rehydration solution, T73, T74
Orchardgrass, 58, 59
Organic, M273, W8
Organic acid, 88, 111, 290, 297, 548, M100
Organic fertilizer, 8
Organic production, 118, 119
Organic wastes, W142
Origanox, W277
Oscillation, 159
Osmotic fragility, M212
Osteoporosis, T109
Ostrich oil, M48
Outlier robustness, 363
Outwintering, 875
Ovarian follicles, 274
Ovarian follicular cyst, M270, M271
Ovarian hormones, T139
Ovary, 308, 310, M252, M261, T130, T148
Over the top, W22
Oviduct, T95
Ovine, M267
Ovsynch, 420, 421, 426, 968, W237, W238
Ovulation, 100, 584, M265, W224
Ovulation rate, 750, 895, M258, M266

Ovulation synchronization, 219, 963, W217
Oxidation, 146, M55
Oxidative stress, 134
Oxygen consumption, T185

P

Pakistan, 131, 132, 133
Palatability, M74, M89
Palm fatty acid distillate calcium soap, W50, W51
Pancreas phospholipids, 140
Panicum maximum, M123
Pantothenic acid, 914
Papillae, T187
Paprika pigment, W59
Parameter estimation, W300
Parameter values, 28
Parasite, W145, W156, W169, W251
Parathyroid hormone, 518
Paratuberculosis, T78
Parity, 737, 741, M4
Particle size, 89, T24
Particulate matter, 191
Parturition, 522, T127
Paspalum notatum, M128
Passage rate, 934, T208
Pasteurization, 186, 188, 759, 965
Pasteurized milk, 689
Pasture, 73, 77, 230, 334, 479, 566, 567, 808, M121, M135, W92, W113
Pasture biomass, M146
Pathogenic *E. coli*, 706, W278
Paylean, M56
PCDARt, T963
Pea silage, 944
Peanut meal, 685, 812
Pearl millet, T34
Pecorino siciliano, 544
Pectinase, M131
Pedigree, 362, W257, W259
Pediococcus acidilactici, M102
Peeling, 44
Peking duck, T29
Pellet quality, T25
Pen effects, 26
Pens with ESF, W198, W199
Peptide, 492, W278
Perennial, 262
Performance, 251, 298, 299, 339, 824, 899, M87, M91, M93, M105, M108, M160, M193, M224, M225, M232, M297, T26, T31, T38, W15, W30, W37, W52, W65
Performance traits, M13
Peripartum, M653
Periparturient, T637, T844
Periparturient cow, W856
Periparturient dairy cow, W513
Periparturient period, 926
Permeability, 543
Persistence, T166, T171
Pet-food, W53
PFGE, W269
pH, 250, 316, M54, T198, W99
pH stability, T280
Phage, T85
Phage display, T92, W278
Phagocytosis, T63
Phenotype, T260
Pheromone, 510
Phospholipase A_2, 667
Phosphoprotein, T101
Phosphorus, 166, 265, 266, 273, 288, 290, 296, 387, 388, 408, 409, 410, 413, 446, 448, 473, 563, 606, 682, 699, 830, M81, M195, T12, T13, T47, T50, W31, W34, W36, W72, W138
Phosphorus availability, W26
Phosphorus-free diet, T412
Phosphorus requirement, M262
Photoperiod, 20, 21, 68, 116, 227, 275, 276, 277, 309, 310, 500, 782, 783, 784, 925, T172, W163
Photorefractoriness, 309
Photperiod, M226
Physical properties, T271
Physically effective fiber, 935
Physically effective NDF, 952, W104, W107
Physicochemical properties, T290
Physiological age, M33
Phytase, 54, 121, 166, 273, 291, 294, 295, 296, 297, 299, 300, 407, 408, 409, 682, T47, T49, T51, W31, W33, W34, W35, W72
Phytate P, 294
Phytate phosphorus, 121
Phytate phosphorus bioavailability, 442
Phytosterol ester, T291
Pig, 85, 86, 87, 231, 242, 244, 245, 246, 248, 249, 250, 251, 254, 255, 359, 360, 404, 405, 406, 408, 409, 410, 411, 413, 505, 508, 509, 510, 511, 573, 575, 578, 581, 766, 772, 773, 801, 859, 861, 863, 896, 898, 900, 903, 905, 908, 909, 911, 912, 914, 915, 919, M80, M85, M86, M87, M88, M95, M98, M99, M101, M104, M107, M109, M239, M255, T31, T32, T35, T36, T37, T41, T42, T44, T46, T48, T49, T54, T56, T60, W65, W66, W67, W69, W143, W197, M259, M261, T47, T55, T125, T148
Pig excreta, T246
Pig hepatocytes, T149
Pig performance, 237, T145
Pig type, 768
Piglet, 253, 796, M78, M84, M90, M96, M102, M110, M111, T21, T794
Piglet behavior, W200
Piglet growth, 658
Piglet mortality, T59
Piglet performance, 910
Pithecellobium dulce, W302
Pituitary gland, T111
Pizza cheese, 550
Placement, T422
Placenta, M257
Placental protein, T146
Plant cell walls, T199
Plant extracts, 794, 940, T201
Plant oils, 605
Plasma, 376
Plasma amino acids, 344, W4, W12
Plasma corticosterone, 818
Plasma metabolites, W132
Plasma urea concentrations, M12
Plasma urea nitrogen, 581
Poa pratensis, M113
Policy, 871
Pollen, 79
Polyacrylamide gel electrophoresis, 83
Polyamines, T89
Polymorphism, M36, M443, M715
Polyphosphate, M49, T281
Polyspermy, W232
Porcine, T153
Porcine mastitis, 658
Pork bellies, 235
Pork meat meal, T250
Pork quality, 234, 236, T57
Portal drained viscera, T235, T236
Portal-drained viscera flux, 662
Portal nutrient flux, 840
Postpartum, M265
Postpuberty, W77
Postweaning diarrhea, 718
Potassium, M80, M242, M195
Potassium acetate, W292, W293
Potato, 328, 333
Potato by-product, T300
Poult, T452
Poultry, 190, 195, 454, 559, 663, 699, 707, M286, T43, W1, W18, W58
Poultry by-product meal, 683, W53
Poultry fat, M75, T251
Poultry industry, M306
Poultry meal, T250
Poultry products, T195, W270
Poultry science, 696
Power, 44
Power analysis, 751

PPAR-γ2, M170
Preadipocytes, 775
Prebiotic, 108, 110, M289, M290, M291, T1, T118
Preconditioning, 553, 554
Predicted transmitting ability, 30
Prediction, T233, W147
Prediction equations, 678
Preference, T24, W303
Preference test, T874
Pregnancy, 103, T138, T140, T176, W218, W219, W231, W244
Pregnancy rate, 43, 99, 421, 426, 740, W229, W243
Pregnancy specific protein B, 970
Preharvest, T200
Preharvest interventions, 501
Prenatal, 591
Prenatal stress, 512
Preparation, W114
Prepartum, W128
Prepartum dairy cows, 852
Presalting, 546
Pressure processing, M71
Pressure treatment, T84, M309
Presynchronization, 419, 421, 968
Price, 232
Primiparous sows, 793
Prion protein, 2
Probiotic, 128, 490, 491, 972, M105, M291, W37, W38, W282, W291
Probiotic yogurt, W285, W286
Process cheese, 45, 761, 762, T274, T286, T288, T301
Processed cheese, 760, T281
Processed cottonseed, T240
Processing, 90, 318, 323, 324, 870, M43
Processing loss, T12
Production, 41, 53, 164, 403, 806, 807, 853, 977, W172
Production cycle, M277
Production parameters, 301
Production-limiting disease, 514
Productive life, 732
Profitability, 261, 838, 839, 966
Progenitor cells, 496
Progeny, W6
Progeny testing, 734, T37
Progesterone, 98, 100, 102, 221, 308, 354, 595, 922, 923, M242, M270, M271, W175, W219, W228
Progestin, 189, 414, 415
Proglucagon, 14
Prolactin, 778, 779, 781, 785, 925, T125
Prolactin axis, 68
Prolactin receptor, 67, T125, T169
Promoter, 65, W210
Prophylaxis, 18
Propionate, 595, 850, T237
Propionate infusion, T184
Propionibacteria, M191
Proportions, 861
Prostacyclin, T103
Prostaglandin, 957, W218, W239
Prostaglandin F_2, 223
Prostaglandin $F_{2\alpha}$, 585, W211
Protein, 125, 158, 248, 268, 338, 339, 685, 843, M92, M96, M97, T181, T182, T183, T186, T197, T211
Protein degradability, 477
Protein digestion, 936
Protein dispersibility index, T41, T42
Protein evaluation, W134
Protein fractions, 652
Protein level, M26, M27, M28, W2
Protein oxidation, 136, T99
Protein requirements, 358
Protein secondary structure, T229
Protein source, W58, W71
Protein supplementation, M152
Protein supplements, 340, 341
Protein synthesis, 766, 767
Protein utilization, M148
Protein-protein interaction, 83
Proteolysis, 61, 542, 958, M54, T299
Proteomic fingerprinting, 151, 233
Proteomics, T151, T158, T163
Proton leak, T185
Protozoa, M215
PRRS virus, 719
Puberty, 497, M249
Pullets, M287, T27
Pulmonary hypertension syndrome, T101, W9
Pulse wave velocity, T102
Putrescine, T89, W45
Pyridoxine, M78
Pyruvate, M244, M245
Pyruvate carboxylase gene, 65, W210
PYY, 13

Q

Quality, M46, M60
Quality control, M138
Quality control laboratory design, M304
Quality grade, 486
Quantitative real-time PCR, 454
Quantitative trait locus, 444, 744, 745, 750, 752, 755, 896, 904, W255, W267
Quantitative trait locus mapping, 749, 901, W254, W259

R

Rabbits, M224
Ractopamine, 85, 86, 234, 235, T50
Rainbow trout, M59, W74
Ram lambs, M217
Ram spermatozoa, W215
Random regression, 40, 365, 367, 369, 737, M21
Random regression model, 889
Rapid visco analyzer, 761
Rare earth, W62, W63
Rat, W191, W272
Rate of passage, W63, W117
Ration evaluation, W136
Rats, W295
Raw milk, T2
Raw milk cheese, 187, W284
Raw milk quality, W249
Razor blade shear, 150
Ready-to-eat foods, 319
Ready-to-eat turkey breast roll, M45
Real-time PCR, 131, 926, T124
Rearing environment, T820
Rearing systems, M272
Receiving diets, 157
Recessive defects, M11
Recessive disease gene, 44
Reciprocal cross, 882, 884
Recognition award, 6
Recombinant antigen, T90
Recombination frequency, 755
Recruitment, M306
Rectal temperature, 601
Rectoanal mucosal swabs, W274
Recycling, T293
Red clover, 391
Reduced calcium mozzarella cheese, T299
Reduced crude protein, 801, 814
Refrigerated storage, 756
Regression, 366, 907, T65, T179
Regulations, 7
Rejected milk, M211
Relationship matrix, 368
Relative net income, 739, M1
Removal, 861
Rennet, T51
Repeatability, 257
Replacement, T686
Reproduction, 36, 101, 164, 311, 470, 529, 587, 592, 627, 633, 647, 650, 900, M19, M253

Reproductive performance, 428, M262
Reproductive tract, T113
Reproductive traits, M13
Requirement, 862, M81, T169, T580
Residual energy intake, M9
Residual feed intake, 725, 729, M171
Residual phytase activity, T14
Residue, 202, W167
Resistance, 1
Respiratory disease, 485
Respiratory infection, T86
Restricted intake, 836
Restricted maximum likelihood, 367
Resynchronization, 419, 420
Retail display, M76
Retention, T27
Return over feed, 514
Review, M304, W356
RFI, 727
Rheological parameters, T297
Rheological properties, 51
Rheology, 64, 151, 538, 551, T285, T287, T288
Rhizoma perennial peanut, M207
Rhizome, M130
Riboflavin, 123
Rice, 835, 910, M89, W41, W67
Rice bran, T35, W69
Rice hulls, M211
Rice protein concentrate, M94
Rice protein concentration, M95
RIS analysis, 939
Risk assessment, T1, T720
Risk factors, 199
Romosinuano, M24, M74, M238
Rooster, 458, 464, W21
Rosemary extract, T373
16S rRNA, W252
Rumen, 843, M187, M209, T182, T192, T203, T204, T205, T220
Rumen bypass, T219
Rumen degradability, T224, T257, T258
Rumen degradable protein, 160
Rumen degradation, 346
Rumen digestibility, M183
Rumen fermentation, 940, M144, M157, M189, M197, T196, T198, T201, W89
Rumen fill, 950
Rumen microbial fermentation, T200, W88
Rumen-protected choline, 855, W124, W125
Rumen-protected methionine, 213, 344
Rumen-protected oilseeds, 635
Rumen protection, W91
Rumen protein degradation, T223
Rumen protozoa, T9
Rumen undegradable protein, T233, W80
Rumen undergradable soy protein, T206
Rumen wall, T187
Rumenocentesis, T203
Ruminal, W95
Ruminal acidosis, W116
Ruminal bacteria, T202
Ruminal biohydrogenation, W93
Ruminal degradability, M219
Ruminal degradation, T197
Ruminal digestibility, 481, T208
Ruminal digestion, 853
Ruminal drinking, W209
Ruminal epithelial cells, T227
Ruminal fermentation, 642, 837, M222, T210
Ruminal parameters, M186, T240
Ruminal pH, 208, 935, 952, M158, W107
Ruminal pH turnover, 481
Ruminant, T162, T205, T343, T472, T569, T941, T147, T183, T225, T226, T231, T234
Ruminant nutrition, M156
Rumination, 629
RVA, 50
Ryegrass, 562, 805

S

Saccharomyces cerevisiae, M164
Safety, 186, 188, 347
Sal CURB ASF, M282
Salmonella, 106, 109, 111, 112, 114, 128, 130, 198, 199, 243, 274, 279, 280, 281, 316, 705, M44, M82, M277, M281, M282, M285, M290, T9, T85
Salmonella dublin, 712
Salmonella enterica, 863
Salmonella enteritidis, M34, M275, M286, M291, M292
Salmonella typhimurium, M288, M289
Salt/starch matrix, 392
Sampling, M138, M302
Sand bedding, 24, W303
Satellite cell, 117, M72, T152, T157
Scales, 735
scFv, T92
Score, 423
Scratches, 142
Scrotal hernia, 897
Scrotal insult, W159
Season, W250
Seasonal anovulation, M264
Seasonality, M227
Seaweed, W76, W139
Segregation, 904
Segregation analysis, 32
Selection, 172, 442, 858, 900, M20, W205
Selection index, 528, 649
Selective DNA pooling, 750
Selenium, M55, M167, M168, M472, M828, M829, T20, T87, W24, W27, W77
Selenium supplementation, M174
Selenium yeast, T691
Sel-Plex, 435
Semen, 422, M244, M246
Semen dilution, 305
Semen traits, T113
Semi-purified diet, T456
Sensitive lamina, T62
Sensitivity analysis, 934
Sensory, 150, M73
Sensory analysis, 48, 544
Sensory evaluation, 640, T300
Sepiolite, 692
Sequence, T70
Serial analysis of protein, 351
Seriel, W154
Serum biochemistry, T88
Serum cholesterol, T255
Serum composition, T193
Sesame meal, T256, T258
Sex, 533, 820, M53
Sexed semen, W213
Sex-sorted sperm, M427
Sexual behavior, T263
Shade, W151
Sheep, 203, 204, 240, 429, 637, 638, 639, 647, 649, M136, M257, M266, T246, T247, T248, T249, T251, T252, T253, T254, T255, T257, T258, T260, W161, W189, W251
Shelf life, 146, 320, 373, 759, M74, T281
Shell eggs, 322, 323, 324, M47
Shipment, M246
Short cycle, M269
Shrimp, M3
Signal transduction, 864
Silage, 211, 612, 615, 954, M118, M156, M188, M211
Silage quality, W302
Silo, M127, M131
Silymarin, 653, W166
Silymarin phytosome, T88
Simplified medium, M345
Simulation, 26, 403, 752
Simulation model, W177
Single-cell protein, W287
Sire selection, 651
Sixty-day hold, 185

Skeletal growth, T160
Skeletal muscle extracellular matrix, M58
Slatted accommodation, 875
Slaughter end points, 888
Slaughter houses, W142
Slaughter weight, T236
SLC1A1, M168
SLC1A2, M168
Slow growing, 145, W8
Sludge, T28, W60
Small intestine, 446, 450
Small ruminants, T243
SNP, 898, W264, W268
SOCS, 781, 783
SOCS2, 445
Sodium, M148
Sodium bicarbonate, 208, M157, M193, T208, W188
Sodium chlorite, M295
Sodium hypochlorite, 198
Sodium monensin, 845, 846, 847
Sodium selenite, W27
Soil, 12
Solar radiation, 929, T141
Somatic cell, T169
Somatic cell count, T257
Somatic cell score, 39, 42, 519, 790
Somatotropic axis, T132, W205
Somatotropin, T138, T140
Sorghum, M87, M89, T49
Sorghum grain, T247, T248
Sorghum × sudangrass hybrids, 394
Sorting, M210
Sow, 20, 238, 582, 583, 796, M240, W22, W76, W196, W431, W594, W791, W795, W201
Sow farrowing behavior, T58
Sow longevity, W198
Sow performance, W79
Soy protein concentrate, M94
Soybean, 589, M91, M96, W124, W125
Soybean by-products, M143, M144
Soybean hulls, 336, 564, M183
Soybean isoflavone, T56
Soybean meal, T43, T224, W70, W170
Soybean oil, M48, M88
Spent hen meat, M41, M42
Spent hens, 303
Sperm, W212
Sperm concentration, T113
Sperm metabolism, M305
Sperm quality index, 305
Spermatozoa, M281
Spices, W54
Splanchnic, 355
Spray-dried plasma, 254, W13
SSH, M39
Stallion, M244, M245, M246
Standardized ileal digestibility, 819
Starch, 690, 843, 938
Starch availability, T216
Starch digestibility, T214
Starch fermentability, 626
Starter culture, 64
Starvation, T175
Statistical power, 482, 745
Statistical process control, 256, W248
Steam flaking, M181
Steam-flaked corn, T216
Stearoyl-CoA desaturase, 209
Steer, 402, 475, 724, 802, M142, T177, W83, W148
Sterilization, T290
Steroid, M251, T152
Steroidogenesis, M252, M257
Stillbirths, 524
Stillborn, T58
Stocker, M152, W156
Stocking method, M155
Stocking rate, 566, 808, M128, M155, T60, W178
Storage, M46
Stover, M141
Strain, 144, 265, 678, 827
Strain × feed interaction, 537
Strain variation, 271, 272
Strains, 25, M297
Strarter cultures, W289
Straw, W949, M111
Strawberry flavor, W71
Streptococcus bovis, 475
Streptomyces solubles, M221
Stress, 503, 505, 818, 920, 921, M239, M299, T111, W241
Stress response, T159
Stressed cells, W271
Strong ion difference, 208
Stubble height, M153
Student survey, T268
Subacute ruminal acidosis, W104, W115
Subclinical, 256, T80
Subpallium, M311
Sugar beet, M131
Sulfate, M173
Sulfur amino acid, 460, 574, 576, 577, T16
Sunflower meal, T44
Sunflower oil, M197
Supplement, T809, M139, T239
Supplementation, 564, M179, T181, W83
Suprol, M88
Surfactant, T642, T210
Survival, 98
Survival analysis, 33, M15
Survival model, 184
Susceptibility, 66
Suspensory score, 885
Sustainability, 347
Sweet cream buttermilk, 550
Sweet potato, 686
Swine, 91, 174, 196, 252, 263, 407, 512, 607, 608, 699, 719, 758, 769, 800, 860, 895, 899, 902, 906, 907, 916, M13, M15, M92, M106, T34, T39, T43, T45, T131, T168, W62, W63, W224, W254, W267, W268, W273
Swine manure, M147
Swine waste, 54
Switchgrass, 561
Sylvo-pastoral, 608
Symbiotic, T296
Synchronization, W175, W217, W221, W225, W230, W233, W236, W237, W243
Synchrotron infrared microspectroscopy, T229, W68
Syneresis kinetics, 543
Synthesis, W106

T

T3, T149
Tall fescue, 53, 54, 56, 57, 58, 59, 97, 593
Tallow, T251
Tannin, M156
Tasco, T72, W139
Taurine, W9
TBA, 264
Teaching, 693, M305
Teat score, 885
Temperament, T432, T433, T924, M24
Temperature, 424, W20, W246
Temperature effects, M307
Temperature-humidity index, W242
Tenderness, 144, 149, 150, 239, 640, M20, M66, M71, M134, T261
Terpenes, M136
Test, T517
Test day, 27
Test day model, 40
Testing, 970
Testosterone, T66
Texture, 61, T274
TGF, T167
Theoretical chop length, 218
Therapy, 17, 18

Thermalization, 187
Thermally induced meat gel, 151
Thermography, 928, W231
Thermoregulation, 876
Thiram, M129
Threonine, 86, 434, 571, 582, 813, 814, M98, W4, W12
Threshold model, 648
Thymol, W49
Thymus, 283, 285
Thyroid, T114
Thyroxine, 402, W203
Tibial dyschondroplasia, 129
Tifton 85, 809
Tilapia, 917
Timed artificial insemination, 219, 416, W217
Timing of artificial insemination, W220, W229
Tissue, T135
Titicale cultivars, M117
TLR9, 758
Tocopherol, W100
Tocopheryl acetate, W100
Tom, M830
Tom strain, 834
Torula yeast, T829
Total digestible nutrients, 932
Total milk production, W300
Total mixed ration, W109
Total sulfur amino acids, 570
Toxicity, T225
Trabecular bone, T109
Trace minerals, 164, 165, 380, W25
Traceability, 263
Trade, 5
Training, 381, 867, M248
Trans fatty acids, 74, 626, W93, W94
Transcription factor, T142
Transgenic, 913, T30, T166
Transgenics, 912
Transglutaminase, 959
Transition, W185
Transition cow, 855, T164, W118, W124, W125, W127, W129, W479, W849, W851,
Transition dairy cow, W797, W798, W850
Transition diet, T70, T845, T846, T847
Transition period, 73, 854, T77, T121, T123
Translation, T157
Translation initiation, 766
Translation initiation factors, 767
Transponders, 263
Transport, T876, T878, T879
Transposon footprinting, M34
Treated soybean meal, M206
Treatment, T66, T521
Triennial workshop, 6
Trifolium, M116
Triglycerides, T255
Tri-Lution, W131
Trisodium phosphate, 316
Tropical conditions, W3
Tropical grass, M178, M180
Tropical plant, W112
Tropospheric ozone, M113, M116, M125
True digestibility of P, 412
True metabolizable energy, T24, W19
Trypsin inhibitor, 681
Tryptophan, 580, 818, M78, T57
Tulathromycin, T93
Tumor, 282
Tumor necrosis factor-α, T64
Tunnel ventilation, 523
Turkey, 113, 139, 265, 266, 299, 306, 308, 309, 449, 451, 458, 811, M297, T26, T83, T84, T86, T105, W26, W31, W32, W45
Turkey fillets, 148
Turkey hens, 307
Turkey poults, 456, T13
Twinning, M237, M260
Twins, W214
Tylosin, T53
Tympanic temperature, 724
Type trait, T733

U

Udder, 928
Udder health, 735
Udder traits, 742
Ultrasonography, T80
Ultrasound, 423, 429, 641, 894, 907, M69, W149, W154, W157
Ultrasound measurements, 406
Ultrastructural-chemical makeup, W68
Ultrastructure, 496
Uncoupling protein, 728
Undegradable intake protein, M119, M218
Undegradable intake protein digestibility, M218
Undergraduate, 693, T269
Undergraduate education, M305, M306
Uniformity, 670
Unsaturated oils, 373
Urban sprawl, 11
Urea, 95, 206, M263, T226
Urea recycling, 205, T228
Urease, W140
Urease inhibitor, 605
Urinary PH, 852
Urine, 342, T192
Urine nitrogen, M241, W137
USAIP, 180
Ussing chambers, W272
Uterine cytology, T80
Uterine horn AI, W234
Uterus, 927, M259

V

V3 receptor, 921
Vaccenic acid, 624, 789, M150, W98
Vaccination, 279, 516
Vaccine, 5, 281
Vacuum packed, 320, M70
Vaginal smears, T262
Validation, 46
Valine, 459, 583, T94
Value-added, 974
Values, 645
Variance component analysis, 904
Variants, 445
Varieties, T248
Vasoconstriction, T104
Vasotocin, T111
Vegetable fat sources, W50, W51
Vegetarian feeds, 825
Vegetation management, W178
Vehicles, T115
Versazyme, M669, M676
Virginiamycin, 288
Virulence, 112, T9
Virulent strains, 132
Visceral organs, 478
Viscosity, 756
Visualization, 362, W257
Vitamin, 229, W28
Vitamin A, 474
Vitamin B, 618, M192, M194, W106
Vitamin C, 824, M79, M298
Vitamin D, 466, 823
Vitamin D_3, 122, T106
25-OH-Vitamin D_3, 466
Vitamin E, 617, M70, M184, T20
Vitelline membrane, T20
Vitellogenesis, T110
Vitreousness, T215
Volatile, 49
Volatile fatty acids, 153, 483, 798, T187, W120, W126
Volatiles and sensory characteristics, M45

W

Wagyu, 154, M67, M68
Waste management, T8, T702
Wastewater, W141
Wastewater treatment, T961
Water, 607
Water buffalo, M61, M62, M63, M69, M185
Water buffalo milk, T296
Water holding capacity, M54, M57
Water quality, 10, 162, 563, M173
Water retention, 90
Water testing, 163
Water treatment, T163
Water-soluble carbohydrates, M202
Wean to finish pigs, M105
Weaned calves, T190
Weaned pigs, M81
Weaning, 504, 662, 805, W149, W202
Weaning age, 359
Weaning weight, T891, M19, W78, W146, W155
Weanling pig, M79, M103, M108, M112
Web, 867
Weigh-suckle-weigh, M177
Weight, W266
Weight gain, W57
Weight loss, 13
Weight management, T493
Welfare, 439, 502, 503, 508, W193, W197
Wet beet pulp, 946, M214
Wet corn gluten feed, T207
Wet distiller's grains, 946, 947, M214
Wheat, T89, M147
Wheat middling, 804, T40
Wheat midds, M183
Wheat straw, M217
Whey, 908, W287, W291, W292
Whey mineral concentrate, W290
Whey protein, 82, 83, 492, W295
Whey protein concentrate, M309
Whey protein flavor, 48
Whipping cream, T295
Whole cell biosensors, 644
Whole Cottonseed, 943, 949, M203, M208, M212, W108
Winter, M135
Wormwood, M222
Wormwood silage, M182

X

Xenobiotic metabolism, T115
Xylanase, 89, 680, M127, M198, W17

Y

Yarrow, T22
Yeast, T611, M163, W140
Yeast cell wall prep, T72
Yeast culture, 610, M161
Yield, 959
Yield grade, 486
Yogurt, T49, T50, T64, W282, W297
Yogurt beverage, T296
Yolk follicles, M294
Youth, 385, 557

Z

Zeolite, 604
Zinc, 832, M83, M170
Zinc metabolism, M826
Zinc oxide, M85
Zinc-L-selenomethionine, W24
Zinc-methionine, 465
Zona pelluicda proteins, 306

Author Index for Volume 82, Supplement 2
(Sectional abstracts, 2004[1])

A

Aad, P. Y., 12, 18
Adams, D. C., 57, 100
Adams, J. R., 104
Adams, T., 20
Adefope, N., 7
Aguilar, U., 130
Aherne, F. X., 64, 80
Ahmadzadeh, A., 125
Aiken, G. E., 4, 31, 32
Aitken, R. P., 48, 92
Alali, W. Q., 92
Alexander, B. M., 113
Algandar-Sandoval, A., 113
Allan, M. F., 85
Allee, G. L., 60, 66, 67, 68, 73, 78, 80
Allen, D. T., 18
Allison, C. P., 33, 58, 59
Alvarez, E., 130
Alvarez-Valenzuela, F. D., 113, 114, 126
Amenyenu, A., 7
Anderson, D. B., 33, 50
Anderson, D. C., 108, 109
Anderson, K. L., 29
Anderson, R. C., 125, 129
Anderson, V. L., 94, 101
Anil, L., 35, 36
Anil, S. S., 35, 36
Animut, G., 31, 32
Ansotegui, R. P., 117, 126, 127
Antoniou, E., 43
Apple, J. K., 11, 14, 53, 72, 102
Arellano, E. G., 129
Arseneau, J. D., 56, 57
Arthington, J. D., 13, 26
Arthur, S. C., 72
Ashley, R., 122
Ashworth, M. D., 17
Atkinson, R. L., 90, 102, 113, 118, 128, 129
Avendaño-Reyes, L., 113, 114, 126
Azain, M., 78

B

Baas, T. J., 39, 45, 46
Bach, L. H., 107
Bachireddy, V., 31
Bachman, G., 34
Baidoo, S. K., 35, 61, 76, 84
Bailey, C. J., 86
Bailey, C. R., 120, 132
Baitis, H. K., 12
Baker, D. S., 112
Baker, J. F., 10, 19, 24
Baltensperger, D. B., 101
Banskalieva, V. B., 15, 30, 31
Banta, J. P., 25, 43
Barb, C. R., 17
Barker, M. R., 75
Barrett, T., 44
Barry, J., 85
Bartle, S., 119
Bartlett, J., 4
Baublits, R. T., 6, 14
Bauer, M. L., 91, 94, 97, 100, 101, 106, 112, 128, 130, 131
Bauman, L. M., 91
Beal, W. E., 12
Beaulieu, A. D., 72, 78
Beck, P. A., 1, 23, 26, 133
Beckford, N. C., 28
Bedwell, M., 8
Beedle, P., 45
Beever, J., 36
Beitz, D. C., 39
Belden, E. L., 119
Bellows, R. E., 119
Beltranena, E., 70
Bender, J. M., 86
Bengochea, W. L., 94, 97, 131
Bennett, G. L., 36
Benton, J. R., 97, 98
Benz, J. M., 106
Berardinelli, J. G., 120, 125
Berg, E. L., 35
Berg, E. P., 54, 56, 57, 92
Berger, L. L., 47, 91, 92, 99
Berhane, M., 31
Berry, I. L., 6
Berry, N. L., 33, 59
Bertol, T. M., 51
Bhusari, S., 43
Bidner, T. D., 74, 81
Biggs, T. J., 23
Black, C. M., 117
Blair, M., 64
Blanton, Jr., J. R., 11
Blasi, D. A., 33
Blount, A. R., 1
Bogden, R., 118
Boles, J., 121
Bormann, K., 93
Borowicz, P. P., 106
Boss, D. L., 108, 109, 121
Bott, R. C., 47
Bounds, D. G., 5
Bowers, S., 20
Bowman, J. G. P., 119, 127
Boyd, R. D., 52, 80
Brana, D. V., 51, 69, 79
Brancel, T. L., 89
Brandt, M. M., 56, 57, 92
Breen, S. M., 88
Bremer, V. R., 106
Brink, D. B., 101
Brooks, B. D., 55
Brown, Jr., A. H., 6, 7, 14, 25
Brown, D. C., 72
Brown, E. G., 6, 13
Brown, M. A., 5
Brown, M. S., 22, 23
Brown, T. T., 29
Brownie, C., 29
Browning, Jr., R., 27
Bruce, L. B., 114
Brumm, M. C., 34, 46, 50
Bruns, K. W., 51
Bryan, T. M., 13, 22
Bryan, W., 99
Buchanan, D. S., 5
Buford, M. L., 54
Buhr, B., 34
Burdick, N., 16
Burfening, P. J., 38
Burke, C. R., 86
Burke, D. H., 55
Burke, J. M., 29
Burkett, J. L., 46
Burkey, T. E., 62
Burkhart, K., 50
Burnham, L. L., 76
Burns, E. M., 109
Busboom, J. R., 111
Busby, W. D., 45
Buskirk, D. D., 53
Byars, M., 27
Byrd, J. H., 5

C

Caamano, J. N., 88
Calkins, C. R., 54, 55
Callaway, T. R., 66, 129
Calvert, C. C., 117
Cammack, K. M., 36
Campbell, C. G., 103
Cantley, T. C., 88
Capps, P., 23
Carman, A. S., 127
Caron, N., 109
Carr, C. C., 56, 57, 58, 92
Carrillo, G., 130
Carroll, J. A., 34, 35, 89, 105
Carstens, G. E., 6, 13, 22, 132
Carter, D. D., 124
Carter, J. N., 65
Carter, S. D., 58, 79
Cassady, J. P., 38, 86
Castaneda, E. O., 69, 79
Casteel, S. W., 61
Caton, J. S., 48, 91, 92, 100, 104, 106, 128, 129, 130, 132
Cebert, E., 3
Cecava, M., 69
Cerda, R., 120
Cervantes, M., 120, 122
Chapa, A. M., 20
Chappell, A., 31
Charbonneau, E., 82
Chase, Jr., C. C., 4, 5
Cheatham, R. C., 120, 132
Cheeke, P. R., 112
Chen, L., 130
Cheng, H.-W., 40
Cherian, G., 121
Chicco, C., 131
Cho, J. H., 62, 63
Choat, W. T., 45, 95, 116
Christensen, K. L., 114
Christiansen, D. L., 13
Church, J. A., 116
Ciccioli, N. H., 18
Ciliax, A. B., 126
Claeys, M. C., 56, 57
Clapper, J. A., 53, 87
Clark, J. T., 101
Clark, R., 44
Clawson, K., 121
Cleere, J. J., 21
Clopton, D. T., 47, 86
Coblentz, W. K., 3, 24
Coburn, L. A., 21
Cochran, E. M., 23
Coffey, K. P., 3, 24
Cole, N. A., 93
Coleman, S. W., 4, 5, 26
Colgan, S., 50
Collier, C. T., 50
Collins, J. K., 131
Collins, J. R., 28, 29
Conzemius, M. G., 36
Cook, W. F., 116
Corah, L. R., 45
Corners, J. B., 96
Cornforth, D., 112
Corona, L., 129
Correa-Calderon, A., 110, 113
Corro, M. D., 11
Costine, B. A., 90
Coussens, P. M., 43
Cox, A. D., 59, 105
Cox, S. H., 117
Coy, A. E., 24
Craddock, B. F., 114
Craig, A. M., 131
Creighton, K. W., 44, 90
Crenshaw, T. D., 63, 77, 89
Crews, Jr., D. H., 109
Cromwell, G. L., 72, 73
Crowe, M., 87
Cundiff, L. V., 36, 37, 38
Cuneo, S. P., 132
Cupp, A. S., 47, 86
Curley, Jr., K. O., 13, 21
Currin, J. F., 10
Curtis, S. E., 52, 88
Cushman, R. A., 85

D

D'Angieri, F. S., 121
Dahlquist, J. M., 96
Dailey, J., 16
Dalton, J. C., 125
Damiana, S. M., 106
Daniels, K. J., 47
Daugherty, S. B., 132

[1]Please note: The numbers following key words in this index refer to page numbers, not abstract numbers.

Dave, R. I., 71
Davis, K. C., 38, 108, 109, 121
Davis, M. E., 72, 102, 133
Dawson, L. J., 31, 32
Day, B. N., 88
Day, M. L., 86
de Greef, K. H., 40
De Lorme, M., 131
de Vries, A., 26
De, S., 111
Dean, D. T., 6
Dean, J., 34
Dean, K. A., 22
deAvila, D. M., 118
Debeux, Jr., J. D., 13
DeDecker, J. M., 52
Deen, J., 35, 36
Dekkers, J. C. M., 40, 41, 42
DelCurto, T., 118, 122, 123
Deplancke, B., 50
DePra, H. A., 94
DeRouchey, J. M., 60, 62, 70, 77, 78, 79, 80
DeRouen, S. M., 23
Detweiler, G., 31, 32
Dicke, B. D., 95, 103
Dikeman, M. E., 102
Dismann, M. P. L., 8, 28
Dixon, L. M., 120, 127
Dixon, W., 85
Dodson, R. E., 20, 27
Dominguez, J., 16
Donkin, S. S., 47
Doornbos, D. E., 109
Doster, A. R., 39
Doubet, J. T., 112
Doumit, M. E., 33, 53, 58, 59, 107
Downing, E. R., 117
Drager, C. D., 23
Drew, M. D., 64
Dritz, S. S., 60, 62, 63, 64, 70, 75, 77, 78, 79, 80, 83
Drouillard, J. S., 95, 98, 103
Dubois, P., 17
Duckett, S. K., 12, 28
Duff, G. C., 120, 131, 132
Duffey, J. L., 114, 117, 119
Duffey, L. M., 45, 95, 115, 116
Duggin, J., 15
Dunn, Barry H., 44
Dybevik, T. P., 89
Dzakuma, J. M., 28

E

Earing, K. E., 95
Earley, B., 40, 87
Echternkamp, S. E., 85
Edrington, T. S., 114, 125, 129
Eghball, B., 82
Eichen, P. A., 36
Eicher, S. D., 47
Einstein, M. E., 52
Eitan, Y, 41
Ellersieck, M. R., 49
Ellis, M., 36, 51, 52, 65, 69, 79, 83, 88
Endecott, R. L., 117
Enns, M., 117
Enns, R. M., 109, 132
Epp, M. P., 33
Epplin, F. M., 2
Erat, S., 5
Erickson, G. E., 49, 82, 90, 95, 96, 97, 98, 99, 100, 101, 103, 104
Ernst, C. W., 43, 49, 107
Escue, S. G., 91, 112
Estienne, M. J., 7, 12, 17
Evans, J. L., 44
Evans, R., 50
Evans, T. J., 61

F

Fahey, A. G., 47
Fakler, T. M., 14
Faris, B. R., 127
Farran, T. B., 103, 104
Farris, K. L., 88
Farwell, R., 88
Fastinger, N. D., 70
Faulkner, D. B., 91, 96, 97, 99, 102, 106
Fei, J., 69
Felton, E., 99
Fendrick, E. F., 101
Fent, R. W., 60, 67, 73, 80
Fernandez, G. C. J., 126
Fernando, R. L., 37, 41
Ferreira, A. V., 130
Ferrel, J., 52
Feuz, D. M., 55
Fieser, B. G., 2, 93
Fike, G. D., 105
Fike, K. E., 105
Filipov, N. M., 13
Finley, J. W., 104
Finnigan, D. M., 34
Firat, M. Z., 41
Fischer, K. A., 89
Fischer, R. L., 69
Fisher, A. E., 8, 9
Fithian, W. A., 98
Fitzgerald, B. P., 13
Fleming, J. N., 11
Fletcher, C. M., 27
Flis, S. A., 82
Flores, R., 4, 19, 129
Folmer, J. D., 103
Fontenot, J. P., 26
Ford, J. J., 42, 89
Ford, S. P., 113, 128, 129
Forrest, D. W., 6
Forrest, J. C., 57
Forsberg, N. E., 128
Foster, D. H., 23
Fox, J. T., 6, 13
Foxcroft, G., 85
Frago, F., 125
Frank, J. W., 67
Fransreb, M., 15
Frantz, N. Z., 60, 78
Frederick, H. M., 132
Freeman, S. R., 30
Froetschel, M. A., 19
Fu, C. J., 65, 103
Fu, S. X., 67, 73, 80
Fulford, J. D., 23
Funston, R. N., 57, 86, 117

G

Gadberry, M. S., 9, 10, 23
Gaines, A. M., 60, 66, 68, 78
Galindo-Gonzalez, S., 26
Gallegos-de la Hoya, M. P., 114, 126
Gandy, S., 20
Garcia, M. D., 111
Garcia, M. R., 16
Gargantini, G., 37
Garner, D. L., 126
Garrett, H. G., 93
Garrick, D. J., 109, 110
Gaskins, C. T., 111
Gaskins, H. R., 50
Gasser, C. L., 86
Gates, R. N., 115, 123
Gbur, Jr., E. E., 6
Geary, T. W., 117, 126
Gebrelul, S., 31
Geisert, B. G., 99, 104
Geisert, R. D., 17
Gelvin, A. A., 48
Genovese, K. J., 125
Gerrish, J. R., 57
Ghebreiyessus, Y., 31
Gifford, C. A., 114, 119, 126
Gilberry, T. C., 112
Gilbert, H., 41
Gilbery, T. C., 94, 97, 128, 130
Gill, D. R., 94
Gill, R. J., 23
Gill, W. W., 8, 9
Gillis, M. G., 12
Ginting, D., 82
Gipson, T. A., 30
Glaze, Jr., J. B., 116
Glenn, M. E., 77, 89
Glennon, H. M., 29
Gnad, D. P., 49
Go, T. G., 75
Goddard, J., 8
Godfrey, R. W., 20, 27
Godoy, S., 131
Goetsch, A. L., 30, 31, 32
Golden, B. L., 112
Golden, J. W., 57, 103
Gonyou, H. W., 34, 72
Good, E. J., 103
Goodband, R. D., 60, 62, 63, 64, 70, 77, 78, 79, 80, 83
Goodwin, R. N., 39
Gorocica-Buenfil, M. A., 98
Gourley, G., 67
Grant, A. C., 53
Grant, S. A., 107
Grapes, L., 41
Graves, K., 21
Graves, W. F., 19
Gray, C. W., 116
Grazul-Bilska, A. T., 106
Greene, L. W., 93
Greenquist, M. A., 95, 98, 103
Gregory, K. E., 36, 37
Greiner, S. P., 10, 28
Grieger, D. M., 33
Griffin, K. B., 111
Grings, E. E., 111
Groesbeck, C. N., 62, 70, 78, 80
Grove, K. A., 105
Gruen, I. U., 57
Guerrero, J. N., 110, 122
Guldbrandtsen, B., 41
Gunter, S. A., 1, 2, 23, 26, 133
Gupta, S., 87
Guthrie, H. D., 85
Guye, A., 76

H

Hackenhaar, L., 64
Hafliger, H. C., 132
Hahn, J. D., 45, 61, 63, 71, 74
Haj Ayed, M., 121
Halalsheh, R. A., 130
Hall, J., 8
Hall, J. A., 121
Hall, J. B., 10
Hall, Z. C., 105
Hallford, D. M., 114, 119, 126, 127, 130, 131, 132
Halpin, K. M., 72
Ham, P., 10
Hammack, R. J., 5
Hand, B. C., 24
Hanna, W. W., 24
Hanni, S. M., 63, 83
Hannon, K. M., 50
Hansen, E., 45
Hansen, J., 45
Hansen, S. A., 45, 61, 63, 71, 74
Harborth, K. W., 24
Hargrave, K. M., 59
Harmon, B. G., 75
Harmon, J., 46
Harper, A. F., 7, 12, 17
Harper, O. F., 8
Harris, A., 31
Harris, H. L., 86
Harrison, R. D., 123
Hart, S. P., 32
Hartung, J. A., 117
Hassen, A. T., 37, 58
Hasted, C. W., 60, 62, 78, 79, 80
Hathaway, R. L., 123
Haugen, H. L., 103
Hawkes, R., 64
Hawkins, D. E., 120, 127
Hawkins, J. N., 116
He, G., 61, 76
Heaton, K., 112
Hedges, J., 71
Heifetz, EM, 41
Heitschmidt, R. K., 111
Heller, D, 41
Helman, E. E., 59, 107
Hemsworth, P. H., 105
Henderson, D. A., 131, 132
Henry, K., 15
Hentges, D., 45
Hermann, J., 50
Hernandez, J. A., 118
Herpin, P., 112
Herring, A. D., 6, 24
Herring, J. L., 16
Herring, W. O., 89
Herron, B. J., 127
Hess, B. W., 48, 90, 102, 113, 118, 119, 121, 128, 129
Hill, B. E., 75, 83, 84
Hill, G. M., 19, 24
Hill, G. M., 49, 74
Hilleson-Gayne, C., 87
Hillman, P., 21
Hinkley, S., 49, 101
Hinojosa, J. A., 18
Hinson, R. B., 67, 74, 75, 79, 80, 83, 84
Hoblet, K. H., 105
Hoffman, P. C., 91
Holcombe, D. W., 126
Holl, J. W., 39
Hollenbeck, R. J., 21
Hollis, G. R., 70
Holloway, J. W., 6, 13
Holthaus, T. W., 55

Holzgraefe, D., 69
Honeyman, M. S., 56
Hong, J. W., 62, 63
Horn, G. W., 2, 93
Horne, W. J., 5
Hornsby, J. A., 6
Horsley, B. R., 12
Hostetler, D., 21
Howard, J. M., 125
Hubbell, III, D. S., 2, 24
Huff-Lonergan, E., 56
Huiatt, T. W., 55
Hulbert, L. E., 16
Huls, D., 116
Huntington, G. B., 30
Hussein, H. S., 65, 66
Hutcheson, J. P., 56
Hutchison, S., 14, 23, 26, 102

I

Ilse, B. R., 108
Inzunza, G., 130
Ireland, F. A., 97, 102, 106
Ivers, D. J., 33

J

Jackson, D. J., 27
Jackson, D. S., 98
Jackson, S. P., 11
Jacobson, L., 46
Jaeger, J. R., 118
Jaeger, S. L., 98
James, B. W., 77, 78
Jennings, J. A., 3, 9, 10
Jensen, H., 123
Jensen, K. S., 116
Jeyamkondan, S., 15
Jha, S., 121
Jiang, Z., 111
Jimenez, D., 130
Jinks, A. D., 117
Johnson, A. K., 34
Johnson, B. J., 33, 48, 49, 88
Johnson, B. M., 106
Johnson, E. W., 88
Johnson, M. G., 11, 53
Johnson, P. S., 115, 123
Johnson, R., 40
Johnson, R. C., 33, 55, 56, 58
Johnson, R. K., 39
Johnson, T., 94
Johnson, Z. B., 6, 7, 14, 25, 31, 32, 72
Johnston, L. J., 34, 46, 64
Johnston, M., 80
Joines, D. K., 8, 9
Jones, C. L., 79
Jones, S. M., 7, 8
Jonker, J. S., 104
Jonovich, L. E., 21
Joseph, J. O., 32
Joshi, P. S., 125
Jung, Y. K., 62

K

Kallenbach, R. L., 93
Kane, J. A., 77
Kane, K. K., 120, 127
Kanis, E., 40
Karr, K. J., 22
Kastner, D. W., 18, 19
Katayama, M., 88
Kattesh, H. G., 45
Kattnig, R. A., 131
Kayser, J. P., 33, 88
Kealey, C. G., 119
Kebe, S. H., 27
Keegan, T. P., 60, 62, 78, 80
Keetch, G. C., 116
Keffaber, K., 33
Kegley, E. B., 11, 53, 102
Keisler, D. H., 11, 13, 54, 89
Kelling, R. S., 120, 127
Kellogg, D. W., 6, 25
Kemp, D. J., 56, 57
Kemp, R. A., 109
Kendall, D. C., 60, 67, 68, 80
Kerley, M. S., 47, 49, 54, 65, 93, 95, 103, 105
Kerr, B. J., 67, 84
Kesler, D. J., 102, 106
Kessen, T. J., 103
Key, K. L., 5
Khatib, H, 41
Kim, I. H., 62, 63
Kim, J. G., 87
Kim, J. H., 62, 63
Kim, J.-J., 42
Kim, K.-S., 42
Kim, S. W., 69, 76
Kim, Y. Y., 63, 75
Kimberling, C., 110
Kincheloe, J. J., 127
Kinder, J. E., 105
King, M. C., 45, 115, 116
Kinghorn, B. P., 36
Kitt, S. J., 69
Klein, C. H., 64
Kliebenstein, J., 34
Klindt, J., 87
Klopfenstein, T. J., 49, 82, 90, 95, 96, 97, 98, 99, 100, 101, 103, 104
Knauer, M., 45
Knehr, C. G., 12
Knight, C. D., 60, 66
Knight, J. W., 12, 17
Knight, R. L., 114, 119, 126
Knight, T. J., 39
Knights, M, 29
Knox, R. V., 88
Koch, K., 101
Kocher, M. E., 52
Koger, T. J., 99
Kong, C. S., 63, 75
Koohmaraie, M., 38
Kranzler, G., 15
Kratz, D. E., 9, 10
Krehbiel, C. R., 31, 32, 94, 130
Kreider, D. L., 19, 20
Krenzer, E. G., 2
Kress, D. D., 108, 109
Krumpelman, S. L., 11, 53, 102
Kruse, R. E., 111
Kwon, O. S., 62, 63

L

Laamari, Z., 121
Laarveld, B., 76
Labbe, C. W., 119
Ladyman, K. P., 93
Lake, S. L., 102, 113, 118, 119, 128, 129
Lalman, D. L., 5, 11, 19, 25, 43
Lamberson, W. R., 36, 43
Lancaster, P. A., 96
Landblom, D. G., 48
Lane, Jr., C. D., 8, 9
Lardy, G. P., 48, 91, 94, 97, 100, 101, 106, 112, 128, 130, 131
LaShell, B. A., 117
Latour, M. A., 59, 105
Laurenz, J. C., 16, 17
Lauterbach, E. A., 23
Lawler, T. L., 132
Lawrence, B. V., 45, 61, 63, 71, 74
Lawrence, J. D., 101
Lawrence, K. R., 62, 70, 78, 80
Lee, C., 21
Lee, W. B., 62, 63
Leininger, J. W., 56
Lema, M., 3
Lemaster, J. W., 27
Lemenager, R. P., 56, 57
LeMieux, F. M., 74
Lenehan, N. A., 62, 70, 78, 80
Less, J., 69
Leupp, J. L., 100, 106, 128
Levalley, S., 110
Lewis, A. W., 21
Li, N., 52, 54
Lim, J. S., 63
Lima, G. J. M. M. de, 64
Lincoln, L. M., 66
Lindemann, M. D., 72, 73
Link, J. E., 49, 74
Linton, R. H., 57
Linville, M. L., 54, 57, 92
Lirette, R. D., 81
Lodge-Ivey, S. L., 131
Loe, E. R., 98, 103
Loerch, S. C., 98
Loest, C. A., 117, 126, 130
Lonergan, S. M., 39, 56, 66
Long, M., 114
Long, N. M., 19
Looper, M. L., 4, 19, 129
Lopez, J., 69
Lopez, M. I., 122
Lopez-Soto, M. A., 129
Lorenzen, C. L., 57, 107
Lorimor, J. C., 84
Losi, T. C., 23
Lovercamp, K. W., 89
Lowerison, M., 109
Loy, T. W., 90, 100
Ludden, P. A., 90, 128
Luginbuhl, J-M., 29
Lukavsky, C., 58
Lukefahr, S. D., 2
Lunstra, D. D., 37, 89
Lunt, D. K., 5, 6
Luo, J., 30
Lusby, K. S., 2
Luther, J. S., 106
Lynch, P. B., 59, 68

M

Mabry, J. W., 45
MacDonald, J. C., 96
Macken, C. N., 82, 96, 97, 98, 99, 103
MacNeil, M. D., 109, 111, 119
Macoon, B., 25
Maddock, R. J., 101
Maddock, T. D., 101
Mahan, D. C., 69, 70, 81
Malayer, J. R., 12, 17, 18
Malechek, J. C., 124
Manandhar, G., 89
Manzo, R., 125
Marinova, P. T., 15, 31
Marr, A. L., 33
Martin, B. D., 46
Martin, J. M., 16
Martinez, C. H., 127
Martinez, M. M., 49, 74
Martz, F. A., 57
Matayompong, P., 55
Mateo, C. D., 71
Mateo, K. S., 99, 100
Mathews, L. A., 95
Mathis, C. P., 115
Matsumoto, Y., 16
Matthews, J. O., 56
Maxwell, C. V., 14, 72
May, D., 129
Mayeux, H. S., 4, 111
McCarthick, J. W., 53
McCollum, F. T., 93
McDaneld, T. G., 50
McDonald, R. A., 90
McDonnelll, M. F., 119
McFee, R. M., 47, 86
McGinley, B. C., 24
McGlone, J. J., 16, 17, 34
McGraw, R. L., 93
McKeith, F. K., 36, 51, 69, 79
McKinley, W. B., 11
McNamara, D. L., 54, 56, 57, 92
McPherson, R. L., 69
Meagher, M., 40
Means, W. J., 46, 113, 129
Medina-Basulto, G. E., 114, 126
Meek, D. M., 124
Mendez, G. Ch., 56
Mendivil, O. B., 132
Mendoza, G. D., 129
Mentink, R. L., 91
Merkel, R. C., 30, 31, 32
Merrill, M. L., 126
Meyer, A. M., 74
Mi, W., 40
Michal, J. J., 111
Miller, J. E., 29
Miller, L. R., 113, 128, 129
Miller, P. S., 69
Miller, W. F., 103
Milne, J. S., 48, 92
Min, B. J., 62, 63
Min, B. R., 23
Miner, J. L., 59
Minick, J. A., 37
Minton, J. E., 62, 75
Moeller, S. J., 42, 46
Moeser, A. J., 83
Molle, J. D. C., 113, 128, 129
Momont, P. A., 116
Montaño-Gomez, M. F., 114, 126
Montgomery, S. P., 98, 103
Montgomery, T. G., 2
Moody, D. E., 50
Moore, K. C., 57
Moreira, V. R., 82

Morena-Rosales, J. F., 114, 126
Morgan, J. B., 14, 15, 58
Morillo, T. B., 79
Morrical, D. G., 101
Morrison, E. J., 116
Morrison, R. S., 35, 64
Morrow, J. L., 16
Mortimer, R. G., 117
Moser, R. L., 81
Mosher, W., 123
Moss, G. E., 48, 112, 113, 127
Moxley, R. A., 49, 101
Mueller, A. L., 49
Mueller, J. P., 29
Muhammad, S., 7
Muley, N. S., 83
Mullinix, Jr., B. G., 19, 24
Murphey, J., 20
Murphy, C., 88
Murrieta, C. M., 14, 118, 121
Mussard, M. L., 86
Musser, R., 45
Myer, R. O., 1
Myers, W. D., 90

N

Nagaraja, T. G., 92
Nahashon, S. N., 4, 7
Nash, T. G., 47, 92, 97
Nave, A., 41
Nayigihugu, V., 90, 113, 118, 121, 128, 129
NCR-89 Committee on Swine Management, 34
Neel, J. B., 8, 9
Neher, F., 17
Nelson, J. S., 120, 127
Nelssen, J. L., 60, 62, 63, 64, 70, 77, 78, 79, 80, 83
Nettleton, D., 40
Neuendorff, D. A., 21
Newcom, D. W., 39, 45, 46
Newman, C. A., 17
Newman, D. J., 56
Nguyen, V. T., 3
Nietfeld, J. C., 75
Nisbet, D. J., 125, 129
Noblet, J., 80
Nolte, J. vE., 130
Nolte, N. K., 130
Nonneman, D., 42
Noon, T. H., 132
Nortey, T. N., 64
Notah, K. A., 117
Notter, D. R., 27
Nsahlai, I. V., 30
Nunnery, G. A., 76
Nuti, L. C., 28

O

O'Connell, M. K., 59, 68
O'Doherty, J. V., 59, 68
O'Gorman, C. W., 16
O'Rourke, K. I., 113
Obeidat, B. S., 130
Odgaard, R., 63, 74
Ogden, R. K., 3
Oh, H. K., 75
Okine, E., 111
Olson, J. L., 117
Olson, K. C., 56, 57, 92, 123, 124
Olson, T. A., 4
Oltjen, J. W., 117
Onks, D. O., 14
Oresanya, T. F., 78
Orr, A. I., 13
Orr, Jr., D. E., 81
Ortega-S., J. A., 2, 18
Ortiz-Colón, G., 53
Osario, F. A., 39
Osborne, J. M., 105
Otto-Tice, E. R., 81
Overend, D., 63, 64, 71, 74
Owen, K. Q., 79
Owusu-Asiedu, A., 71, 76, 77
Oxford, E. L., 7

P

Pace, L. W., 61
Paisley, S. I., 46, 113, 115, 119
Pajor, E. A., 47
Palacios, M. F., 70
Pamp, B. W., 97
Panetta, D., 84
Pant, D., 106
Pardo, C. E., 77
Parish, J. A., 11
Park, J. S., 79
Parlett, M. A., 93
Parrott, T. D., 84
Paschal, J. C., 24
Paterson, J. A., 45, 95, 115, 116, 117
Patience, J. F., 64, 71, 72, 76, 77, 78
Patterson, H. H., 113, 115, 118, 123, 133
Patterson, T., 44
Patton, B. S., 56
Payne, R. L., 81
Pearce, S. M., 52
Peddireddi, L., 67, 74
Pellerin, D., 82
Pence, M. E., 10
Peng, J., 74
Perez-Marquez, A., 110
Perkins, J. D., 25
Perversi, C. D., 55
Peter, C. M., 79
Peters, J. C., 81
Petersen, M. K., 117, 130
Peterson, B. A., 52, 65
Peterson, H., 122
Peterson, J. E., 45, 115, 116
Peterson, R. E., 49, 101
Petry, D. B., 39
Pettey, L. A., 72, 73
Pettigrew, J. E., 70
Pettitt, M. J., 70
Phillips, J. M., 1
Phillips, W. A., 4, 5, 111
Pierce, V. L., 54
Pike, J. N., 103
Pinchak, W. E., 23
Pirelli, G. J, 123
Pita, F. V. C., 41
Plascencia, A., 129
Pohl, S., 46
Pohlman, F. W., 14
Pohlmann, R. M., 86
Poland, W., 122
Ponce-Medina, F., 110
Poore, M. H., 25, 30
Pope, J. H., 10
Porter, J. H., 65, 103
Porter, K. K., 2
Post, N. M., 20
Pouge, D. O., 20
Powers, W. J., 84, 93
Preckel, P. V., 52, 54
Price, M. A., 111
Pringle, T. D., 12
Pritchard, R. H., 51, 53
Pruitt, R. J., 118
Puchala, R., 23, 30, 31, 32
Pulsipher, G. D., 122, 123
Puntenney, S. B., 128
Purcell, S. H., 12
Pyatt, N. A., 91, 92, 99

R

Ra, J. C., 63
Rachuonyo, H. A., 83
Radcliffe, J. S., 67, 74, 75, 79, 83, 84
Rademacher, M., 45
Radke, T., 69
Raines, C., 15
Rainey, B. M., 95, 115, 116
Rakes, L. K., 14
Ramos, III, A., 127
Rampacek, G. B., 17
Ramsey, S., 129
Randel, R. D., 6, 13, 21, 24, 25
Raney, N. E., 43, 49, 107
Ratliff, B. W., 60, 66, 68, 73, 78
Ray, F. K., 15, 58
Realini, C. E., 12
Redelman, D., 126
Redmer, D. A., 48, 92, 106
Reed, J. J., 48, 92, 106
Reed, M. M., 130
Reed, T. A., 119
Reeves, J. J., 111, 118
Reggiardo, C., 132
Reinhardt, C. D., 103
Reisenauer, V. L., 109
Rekhis, J., 94
Rekik, B., 121
Ren, X., 43
Renteria-Evangelista, T. B., 114, 126
Rentfrow, G. K., 56, 92
Reynolds, L. P., 48, 91, 92, 106
Rhea, J., 8
Richardson, C. R., 76
Richardson, L. F., 33
Richardson, M. D., 3
Richert, B. T., 52, 54, 59, 67, 74, 75, 79, 80, 83, 84
Rickert, B. M., 132
Rieke, A. R., 88
Riggs, W. W., 114
Riley, D. G., 4, 5
Riley, T. O., 20
Rilington, V. D., 43
Rimbey, N. R., 116
Rincker, C. B., 47, 91
Rincker, M. J., 74
Risch, E., 28
Ritter, M. J., 51, 52
Roberts, A. J., 117
Roberts, J. L., 17
Robertson, J. L., 12
Robinson, B. L., 127
Robinson, P. H., 113, 117
Robson, R. M., 55
Rodriguez, J., 130
Rodriguez-Zas, S., 36
Rogers, R. W., 16
Rohrer, G. A., 42, 89
Rolfe, K. M., 45, 116
Romanczak, T., 99
Roof, M., 50
Rops, B. D., 113
Rorie, R. W., 20
Rosenkrans, Jr., C. F., 4, 19, 24, 129
Ross, J. W., 17
Ross, T. T., 114, 127
Rothschild, M. F., 36, 41, 42
Rottinghaus, G. E., 61
Rounds, W., 23
Rounsavall, J. W., 17
Rouse, G. H., 37, 58
Rowntree, J. E., 74
Rozeboom, D. W., 34
Rozell, T. G., 86
Rubio, I., 18, 19
Rude, B. J., 3, 13
Rudine, A. C., 17
Ruggiero, K. M., 88
Rule, D. C., 14, 102, 113, 118, 121
Rumph, J. M., 38, 108, 109
Rush, I., 116
Rush, I. R., 101
Russell, J. R., 93, 101
Russell, W. C., 113
Rust, S., 15
Ryan, P. L., 13
Ríos-Utrera, A., 37

S

Saddoris, K. L., 63, 67, 74, 80
Saenz, J. R., 127
Safranski, T. J., 89
Sahlu, T., 30, 31, 32
Salfen, B. E., 89
Salisbury, M., 114
Samarakone, T., 34
Sandelin, B. A., 6, 14
Sanders, J. O., 5
Sanders, S. R., 120
Sanderson, M. W., 92
Sanson, D. W., 23
Santiago, C. A. T., 12, 18
Sargeant, J. M., 92
Saucedo-Quintero, J. S., 114, 126
Saucedo-Quintero, S., 113
Sawyer, J. E., 115, 130
Sayer, K. M., 100, 104
Sayre, B. L., 8, 28
Scaglia, G., 26
Scarbrough, D. A., 3, 24
Schafer, D. W., 132
Schalm, M., 71
Schinckel, A. P., 52, 54, 59, 83, 84
Schlipf, J. W., 121
Schmidt, P. R., 116, 124
Schmidt, S., 21
Schmidt, T. B., 54, 56, 57, 92
Schmitt, R. A. M., 76
Schneider, D. K., 77
Schneider, J. D., 79
Schoenian, S., 27
Scholljegerdes, E. J., 48, 102, 113, 118, 119, 128, 129

Schroeder, S. B., 125
Schultz, C. L., 125, 129
Schultz-Kaster, C. M., 56
Schutz, M. M., 47
Schwab, C. R., 39, 46
Schweers, S. J., 11
Selby, T. L., 57
Selk, G., 10
Sexten, W. J., 96, 97
Shackelford, S. D., 38
Shanklin, R., 26
Shann, I. R., 15
Shelton, J. L., 74
Shike, D. W., 96, 102
Shirley, K. L., 117
Sholly, D. M., 74, 75, 80, 83, 84
Shon, K. S., 62, 63
Short, R. E., 111
Shroeder, S. S., 129
Sieve, A., 40
Silva, J. C., 93
Simmins, H., 76, 77
Simmins, P. H., 70, 71
Simon, G., 31
Sindt, J. J., 98, 103
Singh-Knights, D., 29
Sipkovsky, S. S., 43
Sissom, E. K., 48
Sitz, B. M., 55
Skinner, K., 115
Slay, L. J., 13, 132
Small, W. T., 46, 113, 119
Smiricky-Tjardes, M., 50
Smith, D., 29
Smith, D. R., 49, 101
Smith, E. J, 4
Smith, J. W., 75
Smith, K. R., 12
Smith, T. F., 24
Smith, T. R., 20
Snowder, G. D., 36
Sollenberger, L. E., 13
Soller, M., 40, 41
Soltwedel, K. T., 70
Sosa, A. L., 126
Soto-Navarro, S. A., 91, 94, 97, 100, 104, 106, 112, 128, 130, 131
Southern, L. L., 74, 81
Sowell, B. F., 127
Spears, J. W., 29
Speckmann, R. D., 120, 127
Spencer, J. D., 73, 81
Spicer, L. J., 12, 18
Spiers, D. E., 36, 43
Splan, R. K., 12
Spoolder, H., 34
Spring, P., 61
Sprinkle, J. E., 132
Srichana, P., 60, 66, 68, 78
St. Louis, D. G., 3
Stahl, C. A., 54, 56, 57, 92
Stahl, C. H., 66
Stalder, K. J., 39, 42, 45, 46
Stalker, L. A., 100
Standley, T. T., 95
Standly, T., 115
Stanko, R. L., 2, 18
Stearns, T., 36
Steelman, A., 40
Steidinger, M. U., 60
Stein, D. R., 18
Stein, H. H., 71, 82
Stender, D., 46
Step, D. L., 94
Stephenson, J. D., 14
Stewart, C. B., 1
Stobart, R. H., 112, 113
Stokka, G. L., 44
Stoltenow, C. L., 94
Stonecipher, C. A., 124
Storts, R., 40
Stowell, R., 46, 50
Strauch, T. A., 34, 35, 89
Strey, O. F., 21, 22
Strickland, J. R., 130
Strohbehn, D. R., 45, 101
Studer, S. L., 107
Stuth, J. W., 21, 22
Sulabo, R., 82
Sulpizio, M. J., 103
Sundberg, P. L., 34
Surber, L. M. M., 127
Sutovsky, M., 89
Sutovsky, P., 89
Sutton, A. L., 75, 80, 83, 84
Swingle, R. S., 22

T

Tabler, G. T., 6
Tait, Jr., R. G., 58
Tauck, S. A., 120, 125
Taylor, J. B., 91, 104, 130, 132
Teel, P. D., 21, 22
Terlouw, S. L., 85
Tess, M. W., 111, 119, 121
Thaler, R. C., 46, 82
Thomas, M. L., 25
Thompson, K. C., 6
Thompson, L. N., 96
Thompson, S. A., 113
Thomsen, H., 42
Ting, S., 87
Tisor, L., 122
Tittor, A. W., 14
Tjardes, K. E., 99, 100, 113
Tokach, M. D., 60, 62, 63, 64, 70, 77, 78, 79, 80, 83
Tolleson, D. R., 21, 22
Torell, R. C., 114
Torrentera, N., 120
Totir, L. R., 37, 41
Townsend, J. R., 47
Trapp, S. A., 75, 79, 83, 84
Treichel, J. L., 132
Tritschler, J. P., 8
Troxel, T. R., 9, 10
Tseveenjav, B., 110
Tudor, K., 34
Tuggle, C. K., 107
Turner, J. E., 3, 24
Turner, K. E., 28, 29
Tusler, C. A., 115
Tyrrell, H. F., 104
Tzvetkova, V. L., 15, 31

U

Udoh, O., 31
Umberger, W. J., 55
Underwood, K. R., 113
Usry, J. L., 60, 66, 67, 68, 78, 80

V

Valdivia, J. L., 120
Vallet, J. L., 87
van Heugten, E., 83
van Kempen, T. A. T. G., 83
Van Kessel, A. G., 77
Van Kirk, E. A., 48
van Milgen, J., 80
Van Sambeek, J. W., 93
Van Vleck, L. D., 36, 37, 38
Vanbaale, M. J., 92
Vander Pol, K. J., 98
Vann, R. C., 24, 25
Vasconcelos, J. T., 93
Vavra, M., 122
Vazquez, C., 129
Veldkamp, A. J., 84
Venable, E. B., 47
Vendramini, J. M. B., 13
Vincent, A., 112
Vines, B., 17
Vite, A., 130
Voge, J. L., 12, 18
Vogedes, L. A., 65, 66
Vogt, M. L., 130
Vonnahme, K. A., 128
Voyles, B. L., 22
Vukovich, M. D., 53

W

Walburger, K. J., 122
Waldron, B. L., 123
Walker, C., 92
Walker, E. L., 54
Walker, P. M., 95, 99
Walker, R. S., 117
Wallace, J. M., 48, 92
Wallin, S. L., 108
Wallis, W. A., 14
Walsh, M. C., 74, 75, 80, 83, 84
Walters, D. T., 82
Wamsley, N. W., 117
Wang, Y., 128
Ward, E. H., 118, 123, 133
Ward, M. A., 91, 132
Ware, R., 129, 130
Warrington, B. G., 6
Watkins, S. E., 11, 53
Wattiaux, M. A., 82
Waylan, A. T., 49, 88
Wayment, H. A., 124
Webb, Jr., K. E., 7
Webel, D. M., 73, 81
Webel, S. K., 81
Weber, J. S., 39
Weder, C. E., 111
Weis, A. J., 20, 27
Weiss, J., 46
Welsh, J., 40
Welsh, T., 40
Welsh, Jr., T. H., 6, 13, 16, 21, 22
West, C. P., 25
Wettemann, R. P., 11, 18, 19, 25, 43
Wheeler, T. L., 38
Whisnant, C. S., 86
White, F. J., 18, 19
White, J. D., 11
White, III, M. B., 6
Whitley, N. C., 27
Whitney, T. R., 131, 132
Whittet, K. M., 90
Whittier, J. C., 43, 112
Whittier, W. D., 10
Whitworth, W. A., 2
Wiedmeier, K. R., 124
Wiedmeier, R. D., 116, 124
Wiegand, B. R., 34
Wildeus, S., 28, 29
Wilhelm, B., 116
Wilke, V. L., 36
Willard, S. T., 20, 21
Willer, K. J., 105
Williams, G. J., 104
Williams, J. E., 96
Williams, N., 65
Williams, R. J., 20
Williams, S. K., 116
Willis, C. A., 95
Wilson, C. B., 82, 104
Wilson, D. E., 37, 58
Wilson, L., 81
Wilson, L. M., 67, 74, 79, 80
Wilson, M. E., 90
Wilson, T. W., 10
Wirrenga, J. M., 106
Wise, T. H., 42, 87, 89
Wistuba, T. J., 102, 133
Wolter, B. F., 65
Woods, S. A., 6
Woodworth, J. C., 49, 77, 79, 80
Wright, C. L., 99, 100
Wright, D., 7
Wright, R. E., 21
Wright, Jr., R. W., 111
Wu, X.-L., 111

X

Xavier, E. G., 72
Xiao, Q. X., 111
Xin, H., 84

Y

Yager, A. L., 67, 74, 80
Yang, B. S., 88
Yang, H., 69
Yang, Q. M., 61, 76, 84
Yen, J. T., 68
Yi, G. F., 60, 66
Young, A. J., 116, 124
Young, C., 40
Young, M. G., 62, 64, 80
Yun, M. S., 63, 75

Z

Zagdsuren, Y., 110
Zajac, A. M., 29
Zalesky, D. D., 117
Zanella, E. L., 118
Zhao, H., 40
Zhao, H.-H., 42
Zhao, J., 7
Zhao, S., 107
Zhu, J., 84
Zijlstra, R. T., 64, 71, 72, 76, 77
Zimmerman, J., 50
Zimprich, B. S., 105
Zinn, R. A,, 129, 130
ZoBell, D. R., 112, 123, 124

Subject index for Volume 82, Supplement 2 (Sectional abstracts, 2004[1])

A

Absorption, 131
Accuracy, 46
Acid-Base Balance, 51, 132
Acids, 75
ACTH, 21
Additive Genetic Values, 6
ADG, 96
Adipocytes, 15
ADP-Ribosylation, 55
Aeration, 84
Age at Weaning, 111
Age of Dam, 37
Aging, 57
Agriculture, 18
Alfalfa, 63, 122
Alfalfa Meal, 68
Amino Acids, 60, 67, 69, 130
Δ-Aminolevulinic Acid, 62
Ammonia, 47, 84, 112
Anabolic, 50
Anabolic Implants, 22
Analytical Procedure, 90
Anestrus, 85
Animal Identification, 45, 112
Animal Welfare, 40, 105
Annual Forage, 122
Antibiotic, 17, 26, 50, 76, 121
Antibiotic Alternative, 66
Antimicrobial Susceptibility, 129
Antimicrobials, 62
Antioxidant, 57
Artificial Insemination, 19, 125
Association Test, 41
Atresia, 85

B

Backfat, 36, 42, 65
Backfat Layers, 39
Bacteria, 65
Bacterial Cellular Fatty Acids, 76
Barley, 64, 70, 94, 95, 97, 118, 119, 122, 131
Beef, 12, 14, 15, 45, 54, 55, 56, 57, 99, 101, 107, 111, 121, 131, 133
Beef Calves, 94
Beef Carcasses, 24
Beef Cattle, 1, 5, 6, 7, 10, 13, 23, 25, 37, 44, 46, 48, 86, 90, 98, 100, 101, 104, 108, 109, 111, 115, 116, 117, 118, 123, 124, 131, 132
Beef Cow, 2, 4, 18, 19, 25, 44, 102, 113, 117, 119, 123, 129
Beef Heifers, 10, 19, 20
Beef Pot Roasts, 16
Beef Quality, 58
Beef Quality Assurance, 45, 116
Behavior, 16, 34, 38, 47
Belly Firmness, 59
Benchmark, 44
Betaine, 30
Bile Flow, 129
Binding Proteins, 87
Biological Indicators, 39
Biological Type, 24, 25
Biostimulation, 120, 125
Biotite, 62
Birth Weight, 52, 109
Bloat and Rumen Gas, 23
Blood Urea Nitrogen, 26
Boar, 17, 89
Body Composition, 24, 73
Body Condition Score, 18
Body Dimension, 17
Body Fat, 59
Body Temperature, 21, 36
Boer, 28
Bovine, 118, 125
Bovine Transfer Factor, 103
Brahman Bulls, 6
Brangus, 5, 31
Break Even, 114
Breed Differences, 4
Breeding, 9
Breeding Date, 117
Breeding Values, 38, 110
Breeds, 27, 38
Broiler, 121
Broiler Litter, 23
Brown Mid-Rib Corn, 20
Buffering Capacity, 74
Bull Fertility, 6
Buller Steer Syndrome, 22, 33
Bulls, 51, 118
By-Product Protein, 30
By-Products, 25, 91

C

Calcium, 63, 74
Calf, 26
Calf Health, 119
Calf Performance, 6, 7, 116
California Rangelands, 117
Callipyge, 11
Calpastatin, 107
Calves, 13, 102, 115
Calving Date, 111
Calving Difficulty, 110
Calving Season, 9, 111
Camping, 8
Candidate Genes, 111
Canola, 128
Carbadox, 62, 75
Carbon Monoxide, 15
Carcass, 57, 99, 101, 103, 109, 112, 115, 116
Carcass Composition, 14
Carcass Merit, 46
Carcass Performance, 11
Carcass Quality, 92
Carcass Traits, 4, 5, 37, 64, 103, 111, 120
Carcass Value, 99
Carnichrome®, 80
Carnitine, 77, 79
L-Carnitine, 49
Cashmere goat, 110
Castration, 35, 51, 112
Cattle, 2, 24, 26, 36, 38, 49, 53, 82, 86, 93, 95, 98, 99, 100, 101, 119, 128, 129, 130, 130, 132, 132, 133
Cereal Grains, 65
Certified Calf Sales, 11
Chickens, 40

[1]Please note: The numbers following key words in this index refer to page numbers, not abstract numbers.

Chicory, 83
Cholestrol, 19
Choline, 30
Chromic Oxide, 90
Chromium Propionate, 63, 74
Chromosome 6, 36
CIDR, 117
Climate, 6
Clonal Efficiency, 53
Co-Grazing, 31, 32
Color, 14, 15, 54, 55, 57
Colostrum Quality, 126
Commingling, 94
Compensatory Gain, 2
Competition, 38
Compost, 82
Computer Programming, 109
Computer Programs, 114
Conception, 10
Conception Rate, 125
Conceptus Development, 87
Conjugated Linoleic Acid, 57, 59
Consumer Preference, 112
Contest, 10
Continuous Culture, 47
Cool Season, 1
Cool-Season Forages, 1
Cool-Season Grasses, 124
Copper, 8
Copper Oxide, 29
Copper Oxide Needles, 29
Corn, 79, 83, 94, 101, 129
Corn Bran, 100
Corn Condensed Distillers Solubles, 128, 130
Corn Gluten Feed, 96
Corn Processing, 98
Corpus Luteum, 120, 127
Correlated Response, 109
Corticotropin-Releasing Hormone, 21
Cortisol, 21
CoSynch+CIDR, 106
Cow, 85, 96, 102, 123
Cow Age, 127
Cow Body Condition, 10
Cow-Calf, 124
Crabgrass, 3
Cranial Cruciate Ligament Disease, 36
Creatinine, 90
Creep Feed, 97
Crossbred, 27
Crossbred Lambs, 27
Crossbreeding, 5, 7
Crude Protein, 80, 84
Cull Cows, 23
Culling, 88
Curriculum, 105
Cytoplasmic Droplet, 89

D

Daidzein, 34
Daily Weight Gain, 114
Dairy Cattle, 20, 113
Dairy Cow, 20, 21
Dairy-Beef, 47
DDGS, 96
Degradability, 91
Degradable Protein, 97
Degradation, 3
Dental, 88
Diet Quality, 122
Dietary Fat, 102
Dietary Protein, 96, 97
Digestibility, 61, 82, 98, 100, 104, 128
Digestible Energy, 78, 94
Digestible Intake Protein, 26
Digestible Lysine:DE, 68
Digestion, 24, 65, 128, 130
Digestion Rate, 106
Dilution Rate, 49
Direct-Fed Microbial, 75, 95, 101
Disease, 44
Disease Resistance, 36
Distance, 105
Distillers, 99, 100
Distiller's Dried Grains with Solubles, 80
Distiller's Grain, 47, 96
Divergent Selection, 108
Dried Distillers Grains, 96, 100
Drinking Water, 116
Dry-Cured Ham, 42

E

Early-Weaned Pigs, 105
Early-Weaned Simmental Steers, 91
Early Weaning, 54, 99, 111, 116, 131
Economic, 44
Economic selection index, 110
Economical Analysis, 114
Economics, 4, 47, 111
Efficiency, 9
Electronic ID, 28
Embryo Survival, 81
Embryo Transfer, 89
Embryonic Mortality, 126
Embryonic Survival, 127
Embryos, 88
Endogenous Loss, 73
Energy, 60, 62, 78, 79, 80, 105
Energy Source, 51
Enhancement Injection, 58
Enrichment, 34
Environment, 104
Enzyme, 62, 70, 71
Equid, 12
Equine, 13, 109
Equine Infectious Anemia, 7
Ergovaline, 131
Escherichia coli, 49, 66, 101
Escherichia coli O157, 92
Escherichia coli O157:H7, 125
Essential Fatty Acids, 59
Estradiol, 87
Estrus, 19, 81, 88
Estrus Synchronization, 10, 20, 86, 106, 120, 125
Ewe, 90, 126, 128
Exit Velocity, 21
Expected Progeny Difference, 5
Extension, 7, 8, 9, 10, 11, 115
Extension Programming, 116
External Parasite, 21

F

Fall Calving, 19
Fasting, 51, 127
Fat, 16, 78, 79
Fat Source, 14
Fat Supplementation, 25, 86, 102, 119
Fatty Acid, 14, 31, 96, 102, 121, 129
Feathering Genotype, 4
Fecal Bacterial Population, 76
Fecal Excretion, 90
Fecal Volume, 80
Feces, 21, 22
Feed Budget, 71
Feed Efficiency, 38, 92
Feed Intake, 6, 13, 65, 89
Feeding, 26, 57, 93, 98
Feedlot Lambs, 114
Feedlot Performance, 11, 23

Fermentation, 65, 66, 91
Fermentation Extract, 100
Fermented Soybean Meal, 69
Fertility, 37, 86
Fescue, 2
Fescue Toxicosis, 13, 43
Fetal, 128, 129
Fever, 34
Fiber, 3, 76, 112
Fiber Characterisitcs, 110
Fiber Digestibility, 93
Field Peas, 94, 101
Fine Mapping, 41
Finisher Pigs, 68
Finishing, 25
Finishing Cattle , 95
Finishing Diet, 119
Finishing Environment, 56
Finishing Steers, 99, 113
Fish Oil, 15
Fishmeal, 60, 61
Flaking, 98
Flavor, 54
Flax, 101
Flies, 84
Floor Mat, 50
Flow Cytometry, 126
Flunixin Meglumine, 126
Follicle, 85
Follicle Progression, 86
Follicular Development, 86
Follicular Fluid, 18
Follicle-Stimulating Hormone, 89
Foodborne Pathogens, 129
Forage, 23, 25, 93, 115, 123, 124, 130
Forage Allowance, 2
Forage Intake, 96, 106
Forage Kochia, 124
Forage Management, 24
Forage Minerals, 9
Forage Production, 3
Forage Quality, 3, 93
Forage Utilization, 124
Forecast, 29
FSIL, 41

G

Gastrointestinal Parasites, 29
Gene Expression, 49
GeneSTAR, 91
Genetic Evaluation, 27, 109
Genetic Improvement, 40, 44
Genetic Parameters, 109, 119
Genetic Selection, 40
Genetic Variation, 39
Genetics, 28, 36, 39
Genome Analysis, 109
Genotype, 113
Gestating Cow, 118
Gestation, 35, 80
Gestation Length, 19
Gestation Stall, 35
Ghrelin, 89
Gilts, 64, 81
Glandular Epithelium, 87
Glucose, 117
Glycogen, 53
Glycolysis, 59
Glycolytic Potential, 51
Goat, 28, 29, 30, 30, 31, 32
Gonadotropin, 12, 85, 88
Gonadotropin-Releasing Hormone, 117, 125
Granulosa Cells, 12
Grasses, 65
Grazing, 1, 2, 27, 32, 93, 101
Grower-Finisher Pigs, 34, 68
Grow-Finish Pigs, 69
Growing Environment, 119
Growth, 13, 37, 52, 52, 56, 60, 61, 66, 67, 68, 69, 70, 71, 72, 87, 109
Growth and Behavior, 34
Growth Curve, 54
Growth Hormone, 90
Growth Implants, 121
Growth Performance, 61, 62, 74, 75
Guinea Fowl, 7
Gut Contents, 92

H

Haemonchus Contortus, 29
Hair Sheep, 28
Halothane Sensitivity, 33, 58
Ham Processing, 42
Handling, 33
Hands-On Training, 46
Health, 45, 102, 126
Heat Stress, 20, 36, 43, 113
Heat Damage, 122
Heifer, 26, 43, 44, 47, 86, 101
Heifer Development, 86
Heifer Fertility, 37
Heifer Reproduction, 19
Herb Extract, 63
Herbivory, 122
Heritability, 37, 38, 110
Heterosis, 4, 5, 36
Holstein Calves, 126
Holstein Cows, 20
Holstein Steers, 120
Hoop Barn, 64
Hoop Structure, 56
Hormones, 132
Horse, 7, 8, 65, 66
Horse Packing, 8
Horses and Cattle, 124

I

Identity by Descent, 41
Ileal Bacteria Population, 77
Ileal Digestibility, 83
Illinois Bundle Flower, 61
Immunity, 16, 40, 128
Immunocastration, 118
Immunomodulation, 16
Implant, 12, 46, 53, 56, 57, 103, 120
In Situ, 91
In Situ Digestion, 3
In Situ Digestion Rate, 130
In Vitro, 66, 97
In Vivo Digestibility, 3
Inflammation, 121
Information Systems, 109
Infrared, 15
Injuries, 35
Injury, 35
Inorganic Acidifier, 75
Insemination, 19
Insulin, 117
Insulin-Like Growth Factor, 12, 18
Intake, 22, 92
Integrated Resource Management, 9, 10
Intermediate Filaments, 55
Internal parasites, 32
International, 18
Internet, 30
Intestinal Growth, 48, 92
Intramuscular, 53
Intramuscular Fat Percentage, 39
Ionophore, 129
Iron, 14, 74
Irrigated Pastures, 124
Isoleucine, 45, 67

K

Kernel Traits, 98
Kikuyu Grass, 130
Kochia, 123

L

Labeled ^{15}N Corn, 83
Labeling, 55
Lactation, 81, 117
Lactic Acid, 70
Lactose, 70
Lamb Price, 29
Lambing Rate, 108
Lambs, 29, 94, 130
Lameness, 36
Large Groups, 34
Learning, 105
Legumes, 2
Leptin, 11, 16, 87
Leukocytes, 72
Leukotrienes, 121
Luteinizing Hormone-Releasing Hormone, 118
Libido, 17
Light Intensity, 93
Likelihood, 41
Limit-Fed, 118
Line Cross, 42
Linear Measurements, 109
Linkage Disequilibrium, 40, 41
Lipid Metabolism, 118
Lipid Supplementation, 48, 118
Lipids, 39
Lipoic Acid, 56
Lipopolysaccharide, 34
15-Lipoxygenase, 89
Litter Size, 38 , 81
Locoweed, 130
Logging, 122
Longissimus, 121
Longissimus Dorsi, 96
Low-Quality Forage, 106, 124
Luteolysis, 89, 120
Lymph Nodes, 92
Lysine, 64, 66, 68

M

Macroarray, 107
Magnesium Sources, 63
Maillard Products, 122
Maize, 98
Malignant, 12
Management, 44, 52, 54, 72, 102
Management-Intensive Grazing, 25
Manganese, 14
Manure, 84, 104
Manure Treatment, 11, 53
Marbling, 12, 57
Marbling Gene Marker, 91
Marbling score, 110
Marinating, 16
Markers, 90
Marketing, 7, 111
Mastitis, 21, 126
Maternal Behavior, 6
Maternal Effects, 5
Mature Weight, 109
Meat, 57
Meat and Egg Production, 7
Meat Goats, 27, 28
Meat Quality, 51, 63, 69, 74, 79
Megalac, 19
Melatonin, 125
Melengestrol Acetate, 48
Metabolism, 22, 127
Metabolizable Protein, 30
Mexico, 126
Microarray, 43
Microbial Efficiency, 47, 49, 95
Microbial Response, 105
Microflora, 71
Milk Expected Progeny Difference, 5
Milk Production, 5, 20
Milk Replacer, 114
Milk Yield, 5
Millet, 24
Mineral, 115, 132
Mineral imbalances, 8, 9
Mitochondrial Function, 103
Mixed Grazing, 31
Mixing, 34, 87
Model, 34
Modeling, 40, 49
Monensin, 93
Monoamine Oxidase Type A, 33
Montana, 45, 115
Multiple Pregnancy, 106
Muscle, 55
Muscle Development, 43
Muscle Glycogen, 63
Muscle Growth, 50
Mycotoxin, 61
Myotonia, 28

N

Native Range, 127
Near Infrared, 91
Near Infrared Reflectance Spectroscopy, 21, 22, 117
Neovascularization, 47
Net Energy, 78
Neutral Detergent Fiber, 130
Neutrophil Function, 128
Neutrophils, 121
Newfoundland, 36
Newton Raphson Algorithm, 41
Nitrate, 82
Nitric Oxide, 120
Nitrogen, 82, 93, 104
Nitrogen Balance, 83
Nitrogen Retention, 30, 130
Non-Ambulatory, 33
Nonessential Amino Acids, 60
Nonesterified Fatty Acids, 120
Nonfat Dried Milk, 115
Noxious Gas Emission, 62
NSP, 76, 77
Nucleosides, 71
Nursery, 72
Nursery Pig, 34, 60, 61, 62, 71, 74, 75
Nursing Calves, 48, 106
Nutrient Excretion, 83, 84
Nutrient Management, 82, 104
Nutrient Requirements, 30
Nutrient Restriction, 113, 128
Nutrients, 104
Nutrition, 43, 48, 92
Nutrition Postpartum, 18

O

Oat, 122, 122
Odor, 83
Ornithine Decarboxylase, 127
Oscillating Protein, 26
Oscillation, 59
Ovarian Follicles, 18
Ovulation, 12, 85, 86, 88, 127
Ownership Course, 8

P

Packaging, 54
Palatability, 17
Pantothenic Acid, 78
Parasite, 27, 29
Parasite Control, 8
Partial Budgets, 114
Particle Size, 64, 98
Particle Size Processing, 94, 131
Passage Rate, 76
Pasture, 1, 2, 57, 99
Peeling, 41
Pellet, 130
Performance, 4, 7, 14, 28, 45, 46, 71, 95, 100, 103, 113
Performance Recording, 27
Perinatal Ovary, 86
Perirenal, 53
pH, 74
Pharmacological Zinc, 49
Phosphate, 131
Phosphorus, 63, 63, 72, 73, 77, 82, 84, 93, 99, 104
Physiological Response, 105
Physiology, 40, 87
Phytase, 73, 74
Pig, 7, 17, 34, 35, 39, 42, 45, 49, 50, 51, 52, 54, 59, 60, 61, 62, 63, 64, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 82, 83, 84, 107
Pig Growth, 74
Pig Manure, 84
Pig Performance, 50
Piglets, 61, 71, 78
Pigment Cell Tumors, 12
Placenta, 88, 90, 106
Plasma Lipids, 31
Plate Counting, 65
Polar Overdominance, 42
Polyamines, 127
Polymerase Chain Reaction, 50
Polyunsaturated Fatty Acids, 81
Porcine, 88
Porcine Stress Syndrome, 58
Pork, 14, 55
Pork Processing, 56
Pork Quality, 14, 56, 58, 59, 63
Postpartum, 120
Postpartum Interval, 125
Poultry Fat, 102
Poultry Meal, 60
PPAR, 16
Preadipocytes, 53
Preantral, 85
Preconditioned Cattle, 11
Preconditioning, 94
Prediction, 58, 109
Preference, 55
Pregnancy, 17, 37, 48, 87, 91, 92, 132
Pregnancy Rate, 126
Pre-Harvest Control, 11, 53
Prepartum Milking, 47
Prepartum Period, 113
Primiparous Cow, 18, 43
Probiotic, 76, 121
Processing, 95, 97
Producer Education, 116
Production, 124
Production Systems, 43
Profitability, 9, 99, 116
Progesterone, 19, 48, 125, 127
Progestin, 12
Prostaglandin, 17
Prostaglandin $F_{2\alpha}$, 118
Protein, 101
Protein Degradation, 98
Protein Digestion, 97
PRRS Virus, 50
Puberty, 64, 85, 86, 87, 114
Purine Derivatives, 90

Q

Quality, 56, 116
Quality Assurance, 10
Quality Grade, 45
Quantitative Trait Loci, 40, 41, 42, 89
Quantitative Trait Loci Mapping, 41, 42

R

Ractopamine, 52, 54, 68, 77, 78
Rambouillet, 108
Range, 2, 132
Rats, 36
Real-Time PCR, 65
Receiving Cattle, 103
Receiving Rations, 95
Records, 10
Rectal Temperature, 131
Reduced Crude Protein, 83, 84
Regression, 39, 85, 104
Relationships, 9
Relative Bioavailability, 69
Removal, 52
Rendement Napole, 58
Repeatability, 110
Replacement, 43
Replacement Heifer, 9, 96, 97
Reproduction, 27, 43, 86, 119, 127
Reproductive Traits, 5
Requirement, 99
Residual Feed Intake, 6, 13, 103
Restriction, 92
Retained Ownership, 11, 24, 116
Retinal Vascular Pattern, 112
Revalor, 56
Rice Bran, 23
Rice Straw, 3
Risk, 44
Romosinuano, 4, 5
Rotational Grazing, 31
Roughage, 95
Rumen Bolus, 28
Rumen Digestion, 130
Ruminal Fermentation, 48
Ruminants, 97

S

Saccharin, 23
Salmonella, 75, 114
Salt, 82
Scrapie, 113
Scrotal Circumference, 108
Season, 8, 85
Seasonality, 29
Seaweed Extract, 100
Selection, 37, 38, 44, 108
Selenium, 91, 104, 123, 132
Semen, 118
Semen Characters, 119
Sensory, 14
Serum Retinol, 92
Sheep, 11, 27, 114, 119, 128, 130, 131
Shelf Life, 15, 57
Shipping Fever, 94
Simulation Model, 82
Size, 15
Skeletal Muscle, 48, 50
Small Grains, 2
Small Ruminant, 8, 29
Sodium Chlorate, 62
Soil pH, 9
Sorting, 34
Source Verification, 112
Sow, 35, 36, 65, 80, 81, 88

Sow Housing, 16
Soy Contaminants, 69
Soy Hulls, 94
Soy Protein Concentrate, 70
Soybean Meal, 99, 100
Soybeans, 102
Soyhulls, 105
Space Allowance, 34, 64
Spanish, 28
Split Marketing, 45, 59
Spray-Dried Plasma, 7
Starch, 97
Starch Digestion, 129
Steer, 24, 25, 87, 95, 103, 104, 112, 123, 128
Steer Gain, 2
Steroid Hormones, 33
Stillbirths, 112
Stocker, 4
Stocker Cattle, 25
Stocking Density, 59
Stocking Rate, 31, 32
Stockpiled Fescue, 4
Stress, 35, 40, 94, 126
Stress Susceptibility, 58
Subcutaneous, 53
Sulfates, 113, 123, 123, 133
Sulfur, 8
Sulfur Amino Acids, 60, 66
Sunflower Oil, 31
Supplement, 48, 115
Supplement Intake, 127
Supplementation, 3, 26, 93, 100, 106, 123
Surgery, 126
Survey, 9, 10
Sustainability, 115
Sustainable, 27
Sweetener, 23
Swine, 14, 39, 45, 46, 50, 63, 64, 66, 72, 72, 77, 83, 85, 89, 112
7-11 Synch, 106
Synchronization, 117
Systems, 115
Systems Approach, 44

T

Tall Fescue, 24, 131
Tallow, 102
Tannin, 23, 29
Tax, 44
Teaching, 18, 105
Temperament, 21, 24, 25
Temperature, 20, 105
Tenderness, 15, 51, 55, 107, 121
Tennessee Stiff-legged, 28
Testis, 89
Testis Morphology, 47
Thecal Cells, 12
Thiamin, 133
Thyroxine Binding Globulin, 42
Thyroid, 114, 119
Tick, 22
Tilmicosin Phosphate, 103
Timed Artificial Insemination, 20
Tissue Growth, 91
Titanium Dioxide, 90
Total Mixed Ration, 91
Trace Mineral, 74, 81
Training, 115
Transmission, 50
Triticale Cultivars, 3
Tropical Breed, 4
Tryptophan, 45, 64

U

Ultrasound, 39, 46, 58, 78, 113
Ultrasound Body Composition, 6
Undegradable Protein, 97
Urea, 132
Urea Recycling, 100
Urine Urea, 68
Uterus, 17, 88
Utilization, 124

V

Vaccination, 49
Valine, 67
Value-Added, 16
Variability, 72
Vascular Endothelial Growth Factor, 47, 86
Vascularization, 106
Ventilation, 46
Viability, 88
Virus, 39
Visceral Organs, 129
Vitamin, 69
Vitamin A, 92
Vitamin C, 71
Vitamin E, 133
Vitreousness, 129

W

Waste Management, 83
Water, 123, 133
Water Holding Capacity, 55
Water Quality, 113
Wean, 70
Weaned Calves, 24
Weaned Pigs, 62
Weaning, 13, 89
Weaning Age, 96
Weaning Pigs, 75
Weaning Weight, 37, 38
Weanling Pig, 62, 70, 72
Weight, 36
Weights at Birth and Weaning, 110
Welfare, 16, 17, 36, 40
Wethers, 125
Wheat, 71
Wheat Bran, 80
Wheat Forage, 23
Wheat Midds and Soybean Hulls, 95
Wheat Pasture, 2, 93
Whey, 72
Wilderness Survival, 8
Winter Wheat, 4

Y

Yeast, 62
Yeast Cell Wall, 13
Yield grade, 110
Yucca, 84
Yucca schidigera, 112

Z

Zone Heat, 50